

図46 (続き)

21865	FLJ33962	NM_153213.2	1800	caggagtgcaatgctagtgtaca	422203	-	-	-
21866	FLJ33977	NM_173666.1	671	cggatgcagccgactaatagatg	427234	-	-	-
21867	FLJ34047	NM_173669.1	543	ggcgaggacacttggttagcacc	427263	-	-	-
21868	FLJ34064	NM_152633.1	1583	aagatatgtatcgtgtataga	419365	-	-	-
21869	FLJ34154	NM_173813.2	2072	tggcggtgtagacctcaattta	428303	-	-	-
21870	FLJ34278	NM_173602.1	440	atgaacgatatagatcagatc	426459	-	-	-
21871	FLJ34443	NM_175918.2	1711	cagacgcgtgtaccgtacattct	429366	-	-	-
21872	FLJ34503	NM_173673.1	303	atgctctcaagcctgtttcaga	427304	-	-	-
21873	FLJ34512	NM_173476.2	507	tgtgcacattcgaatcaccacc	424944	-	-	-
21874	FLJ34583	NM_198276.1	634	aagcgatcacatcatctcact	437433	-	-	-
21875	FLJ34633	NM_152365.1	985	gcggcattcctgcattagacc	415822	-	-	-
21876	FLJ34690	NM_182567.1	481	aggtgaattcggacattgtct	434480	-	-	-
21877	FLJ34766	NM_178502.2	867	tggagaagtcgcggcattcattc	430919	-	-	-
21878	FLJ34780	NM_173651.1	80	aagacaacgcctcttcttaag	427065	-	-	-
21879	FLJ34790	NM_173621.1	934	ttgattgacacgctcactctat	426602	-	-	-
21880	FLJ34836	NM_173668.1	460	cagtcctgtaggcacttgcttaa	427252	-	-	-
21881	FLJ34922	NM_152270.1	2592	gtgttaagggaaccttaagaatt	415251	-	-	-
21882	FLJ34969	NM_152678.1	285	cagccggtgaggaatttatcc	419631	-	-	-
21883	FLJ35093	NM_198549.1	1752	gagaaagtgogctattcaagta	439409	-	-	-
21884	FLJ35119	NM_176871.2	623	tgggtgactttccgataagatgg	429380	-	-	-
21885	FLJ35220	NM_173627.2	634	cagcaccagccctctacatct	426638	-	-	-
21886	FLJ35283	NM_152702.1	506	atgtgtgtcagccaattgtcact	419895	-	-	-
21887	FLJ35424	NM_173661.1	705	atgaattactgatacatctaa	427150	-	-	-
21888	FLJ35453	NM_152600.1	1530	ccgtgcctcctcgcaaacattaa	418730	-	-	-
21889	FLJ35487	NM_173820.1	168	cagccagggaccgaccattaga	428325	-	-	-
21890	FLJ35709	NM_173589.1	1311	ccgcctgtgtgactacatgattt	426343	-	-	-
21891	FLJ35721	NM_173684.1	178	atggacatctccttactctca	427389	-	-	-
21892	FLJ35725	NM_152644.1	232	atgcaatcacaccatgataag	417860	-	-	-
21893	FLJ35728	NM_152610.1	692	cagcagccaggtgagctatag	418809	-	-	-
21894	FLJ35757	NM_152598.1	2247	ttgtgtcgcactgtcagatagc	418691	-	-	-
21895	FLJ35773	NM_152599.1	491	tcgggtgcaactcccttgtaatg	418704	-	-	-
21896	FLJ35775	NM_152418.1	576	cagcgtcgtgttcatagttagc	416499	-	-	-
21897	FLJ35779	NM_152408.1	1371	atgtatgtgccaagaggttgaac	416412	-	-	-
21898	FLJ35782	NM_152631.1	1642	cagcgtgggaggaataggtatgg	419226	-	-	-
21899	FLJ35794	NM_152617.2	628	gtgtaaccacacgtgtgtaaac	418898	-	-	-
21900	FLJ35801	NM_153044.1	975	caggttagtggtacaagtcaca	422057	-	-	-
21901	FLJ35802	NM_173538.1	207	cagccagaggtatgagcaatct	425705	-	-	-
21902	FLJ35821	NM_152589.1	1120	atgagttatcacccgaataaa	418445	-	-	-
21903	FLJ35827	NM_153265.1	2661	ctggactgactcggagacattcc	422757	-	-	-
21904	FLJ35834	NM_178827.3	2289	aggatatgaacgtcattatt	431943	-	-	-
21905	FLJ35838	NM_173532.1	752	gtgcaactggcgatccactaaga	425580	-	-	-
21906	FLJ35843	NM_152591.1	1196	ttgtctggttcactgtatgcag	418505	-	-	-
21907	FLJ35866	NM_178828.3	2676	tggatctcgggttgaaatctgt	431967	-	-	-
21908	FLJ35880	NM_153264.2	651	ctgggctctacacgtaaggatga	422714	-	-	-

図46 (続き)

664

21909	FLJ35894	NM_173616.1	992	tggcggagctggtatattgtct	426551	-	see also 10089 line	-
21910	FLJ35961	NM_152372.2	2321	cagccgctgagctacatcatc	415928	-	-	-
21911	FLJ35976	NM_173639.1	330	gagcagccgctgctgttgaact	426929	-	-	-
21912	FLJ35989	NM_152597.3	1330	gagcaacgcatctgcatatcg	418651	-	see also 9898 line	-
21913	FLJ36004	NM_152590.1	1249	cggccaaccagacacatcgagc	418487	-	-	-
21914	FLJ36046	NM_152612.2	894	ccgcaagcagagattcaataagg	418821	-	-	-
21915	FLJ36090	NM_153223.1	732	gagcctggtgaaacgttagaata	422286	-	-	-
21916	FLJ36102	NM_173590.1	711	tggagcatcttattacttagt	426351	-	-	-
21917	FLJ36144	NM_182561.1	1713	gagaggatacagatcaagaaaga	434454	-	-	-
21918	FLJ36155	NM_147193.1	2198	cggggagagccacaggtttcaacc	415091	-	-	-
21919	FLJ36175	NM_152528.1	255	ctgtactctgttactgtactttac	417688	-	kinase_related	-
21920	FLJ36180	NM_178556.3	826	aagctcggctttcgaatctcttg	431274	-	-	-
21921	FLJ36198	NM_173801.2	331	ctgtacttaccocccaaggaatat	428041	-	-	-
21922	FLJ36335	NM_173568.1	1052	cggttatgtgtccttattgtgg	426233	-	-	-
21923	FLJ36445	NM_153233.1	1139	aagcccccattcaaatctactoc	422423	-	-	-
21924	FLJ36525	NM_147129.2	1963	gcgtggtctcaggattacactgt	415030	-	-	-
21925	FLJ36561	NM_182520.1	821	ccgctatgagccctatttgaga	434088	-	-	-
21926	FLJ36576	NM_173522.1	335	cagttgtgtgcattctcaaga	425430	-	-	-
21927	FLJ36600	NM_182497.1	668	tggccaactgactttaagtca	433959	-	-	-
21928	FLJ36601	NM_173695.1	1058	taggcatactgcagcaaatat	427666	-	-	-
21929	FLJ36664	NM_173690.1	835	aggcggatctgtcaatggtatta	427467	-	see also 10111 line	-
21930	FLJ36674	NM_173622.1	438	ttgcccgaagcctatgtgagg	426617	-	-	-
21931	FLJ36760	NM_198550.1	920	tagtgatagcagcgcaaatat	439440	-	-	-
21932	FLJ36779	NM_152571.1	531	ttgccttcaggagtcagattcc	418162	-	-	-
21933	FLJ36812	NM_153260.1	786	aagcaaccagattgaagtatacc	422884	-	see also 9979 line	-
21934	FLJ36874	NM_152716.1	1263	gaggaactatgaagagcttatct	420059	-	-	-
21935	FLJ36878	NM_178518.2	1037	gggaagcgtggccacattatgt	431057	-	-	-
21936	FLJ36888	NM_178330.2	277	tggatctcaataaggagataatg	431979	-	-	-
21937	FLJ36980	NM_182598.1	364	atgagaaggaccgcactatttca	434596	-	-	-
21938	FLJ37099	NM_198459.1	1052	gtgtacgcogtataaagaaga	437893	-	-	-
21939	FLJ37118	NM_173507.1	1486	cagcgaggatgccacattctcc	425204	-	-	-
21940	FLJ37306	NM_173497.1	670	ctgtgtatgataccttactaat	425164	-	-	-
21941	FLJ37357	NM_173645.1	656	aggctgaogtgcctttattgtct	426946	-	-	-
21942	FLJ37396	NM_173671.1	578	ccgacgcgcgaggtttgatctca	427282	-	-	-
21943	FLJ37538	NM_173664.2	1520	aggacaaggccgtgtctttacaac	426185	-	-	-
21944	FLJ37543	NM_173667.1	80	tggcaccactottcttattgtct	427240	-	-	-
21945	FLJ37549	NM_152605.1	1291	aggcagagggcgcatcttactca	418745	-	-	-
21946	FLJ37587	NM_173597.1	460	cagcggcaactcttcttactca	426425	-	-	-
21947	FLJ37659	NM_173698.1	742	aagctctacgatgaatcagaat	427707	-	-	-
21948	FLJ37673	NM_182591.1	228	ttgggtgtgtgaactgatattt	434558	-	-	-
21949	FLJ37794	NM_173588.1	1334	ctgacgcacacagcttaagattaa	426315	-	-	-
21950	FLJ37818	NM_175916.2	334	aggcactgatacgttcnata	429553	-	-	-
21951	FLJ37927	NM_152623.1	378	ttggcagtagcccatcaccaca	419079	-	-	-
21952	FLJ37953	NM_152382.1	769	acgaagaatggtctctacattc	416023	-	-	-

図 46 (続き)

665

21953	FLJ38101	NM_153281.3	130	gagagagacttaactaatat	422690	-	-	-
21954	FLJ38159	NM_152723.1	340	atgttcgtccgcgcataaga	420095	-	-	-
21955	FLJ38190	NM_152335.1	678	agggtgaagagggtcattgac	415695	-	-	-
21956	FLJ38288	NM_173632.2	1064	tagaggaactccacctaagg	426907	-	-	-
21957	FLJ38335	NM_153228.1	1072	aagtctggcttacaataaaga	422342	-	-	-
21958	FLJ38377	NM_152698.1	2010	cagccacttcgacacagatact	419889	-	-	-
21959	FLJ38379	NM_178530.2	720	acgtctcacacagtgcttgg	431073	-	-	-
21960	FLJ38426	NM_173611.1	503	ctgacattccgcatactgaac	426511	-	-	-
21961	FLJ38482	NM_152681.1	582	gagacttggtgatgatacagt	419713	-	-	-
21962	FLJ38564	NM_152579.1	322	tggctcaatgtaaagtacatag	418235	-	-	-
21963	FLJ38568	NM_153252.1	1757	gtggagggtacgctatattgaac	422656	-	-	-
21964	FLJ38607	NM_152654.1	327	aagtgcaccagggagatgtaag	419515	-	-	-
21965	FLJ38615	NM_173528.1	443	gggaactgagcctgtgtgact	425507	-	-	-
21966	FLJ38628	NM_152267.2	333	ctgtggcctgtttacataagt	415226	-	see also 9823 line	-
21967	FLJ38716	NM_152367.1	656	gtgaacatgcacggagacattgt	415838	-	-	-
21968	FLJ38723	NM_173805.2	75	cagctcaagtgttactgattga	428051	-	-	-
21969	FLJ38725	NM_153218.1	575	ctgcaactttgtataccattaaa	422232	-	-	-
21970	FLJ38736	NM_182758.1	2261	aggcaactagccagccttact	435080	-	-	-
21971	FLJ38753	NM_152375.1	1628	tggcgctcaacggctttctctac	415957	-	-	-
21972	FLJ38771	NM_173511.1	1282	gagttctcgaggaacaaagtaca	425264	-	-	-
21973	FLJ38773	NM_178528.2	648	gtgcaagctcggagatgaatgg	431070	-	-	-
21974	FLJ38792	NM_178202.2	626	gtgacgggagcgtgattatct	431067	-	-	-
21975	FLJ38819	NM_145865.1	98	gaggctccaaagcagagatctaaa	414935	-	-	-
21976	FLJ38944	NM_152361.1	376	cagattactacgggatttcgagg	415808	-	-	-
21977	FLJ38968	NM_152316.1	187	gagtcagcttcgtactacaaat	415551	-	-	-
21978	FLJ38973	NM_153689.3	559	cggttcccaatagttatttg	423528	-	-	-
21979	FLJ38984	NM_152374.1	534	ggggaccacccctcctggattatg	415948	-	-	-
21980	FLJ39058	NM_173580.1	200	ctggagcttgctgtatttccagc	426297	-	-	-
21981	FLJ39106	NM_173629.1	654	ctgttgacacctaccggatcat	426693	-	-	-
21982	FLJ39237	NM_198571.1	1111	acggcaacttggcgtatctcaac	439707	-	-	-
21983	FLJ39267	NM_173550.2	3628	ctggctcagctcaatagacatct	425937	-	-	-
21984	FLJ39370	NM_152400.1	399	ctgcaagcccttggactagtgc	416283	-	see also 9851 line	-
21985	FLJ39378	NM_178314.2	1169	tggtagcagcgggactgataata	430700	-	-	-
21986	FLJ39415	NM_173681.1	775	tcgatcgtggattacaatgttc	427337	-	-	-
21987	FLJ39426	NM_173609.1	693	aagtgtagtgtaaaatgacgc	426490	-	-	-
21988	FLJ39441	NM_194285.1	1622	ctggacggactgtcagtaattca	436341	-	see also 10307 line	-
21989	FLJ39553	NM_173549.1	938	gagaaatgaacaccagaagtatt	425850	-	-	-
21990	FLJ39575	NM_182597.1	419	tgggtattccataaagactta	434584	-	-	-
21991	FLJ39576	NM_182592.1	603	gtgtcaccttaccatagtgaattt	434583	-	-	-
21992	FLJ39582	NM_178315.2	387	aagacagatgcgaatacagaaa	430707	-	-	-
21993	FLJ39630	NM_173688.1	404	aggacaccgatctaataagacattc	427430	-	-	-
21994	FLJ39647	NM_173625.2	853	ctgttatccaccagacatacttc	426637	-	-	-
21995	FLJ39653	NM_152684.1	823	gggacagtggtacctgattcc	419796	-	-	-
21996	FLJ39660	NM_173646.1	592	tgtcatctcgaagattgaattt	426988	-	-	-

666

図46 (続き)

21997	FLJ39743	NM_182562.1	541	gcggagacttctgtgagacattcc	434457	-	-	-
21998	FLJ39821	NM_173700.1	751	aggccctccaccgagaataagg	427732	-	-	-
21999	FLJ39827	NM_152424.1	2215	gagaagcccgctcttagagtcca	416613	-	-	-
22000	FLJ39873	NM_173799.2	510	tgggtgctgcgttgactagaaag	427987	-	-	-
22001	FLJ40089	NM_182496.1	595	ctgctcgagtatgcttttgaac	433935	-	-	-
22002	FLJ40126	NM_173599.1	230	atgcccttaagaagacataattt	426429	-	-	-
22003	FLJ40160	NM_173484.2	491	aggcccttcggtgggaataag	424997	-	-	-
22004	FLJ40172	NM_173649.1	159	gtggagaatagacataacagata	427055	-	-	-
22005	FLJ40182	NM_173696.1	778	ctgtacagtaccacatttgtaaa	427693	-	-	-
22006	FLJ40201	NM_152607.1	599	atgcttggaaacgggtctatcc	418747	-	-	-
22007	FLJ40224	NM_173579.1	837	gagtcaggagccgaatccatca	426296	-	-	-
22008	FLJ40235	NM_173635.1	724	ctgatacagggtgctatctatgc	426917	-	-	-
22009	FLJ40243	NM_173489.2	4585	ccgagacgtgaggtcttacttca	425116	-	-	-
22010	FLJ40288	NM_173682.1	971	aggctataggaaatacttaaac	427357	-	-	-
22011	FLJ40296	NM_198441.1	263	tcgctccatggccccaatacaag	437768	-	-	-
22012	FLJ40321	NM_198479.1	916	aaggcccgaggtcccatcttaagt	438456	-	-	-
22013	FLJ40365	NM_173482.1	958	gtgcgcttggcgctaaacgaag	424984	-	-	-
22014	FLJ40411	NM_198852.1	507	ctgatcacccggttcaattcata	439950	-	-	-
22015	FLJ40457	NM_173628.1	1492	tggcgaaggtgttttcagtaca	426670	-	-	-
22016	FLJ40504	NM_173624.1	509	gggtcttagccagttagatttac	426620	-	-	-
22017	FLJ40542	NM_178503.2	333	cagccgtgccacgatttatct	430924	-	-	-
22018	FLJ40597	NM_152615.1	1210	aggagcgtgcagggttagtcacc	418889	-	-	-
22019	FLJ40629	NM_152515.2	860	tcggaacctagtaaaagttcaagt	417412	-	-	-
22020	FLJ40852	NM_173677.1	437	tggatcatgtctgatgatag	427326	-	-	-
22021	FLJ40869	NM_182025.1	1435	gtgtaaagaccctgcaatgttag	434753	-	-	-
22022	FLJ40873	NM_152665.1	233	atggcgcatcaagattctatg	419536	-	-	-
22023	FLJ40906	NM_173640.1	560	cagtagtctcgcccaatgtgaag	426933	-	-	-
22024	FLJ40919	NM_182508.1	315	atgctctgtacttagagattcca	434026	-	see also 10266 line	-
22025	FLJ41131	NM_198476.1	886	gggcaagagttggcactatcagc	438438	-	-	-
22026	FLJ41238	NM_198485.1	305	gtgtgaccgaatcaactcttac	438511	-	-	-
22027	FLJ41410	NM_198581.1	899	caggtctgtgacctaacatgtct	439766	-	see also 10347 line	-
22028	FLJ42117	NM_198463.1	1909	atgttgagcccaaccaatcttcc	438056	-	-	-
22029	FLJ42461	NM_198501.1	486	cagcaagcaaacacagcaatagc	438741	-	-	-
22030	FLJ42654	NM_198447.1	544	gcgtgttccggagacttcaagg	437824	-	-	-
22031	FLJ42925	NM_198511.1	926	tgggaagcagtatgcataaaga	438840	-	-	-
22032	FLJ43070	NM_152286.2	2240	gtgtgactcggctgattcatct	415349	-	-	-
22033	FLJ43374	NM_198582.1	905	cagacttcccgactatcacag	439813	-	-	-
22034	FLJ43654	NM_198562.1	664	aaggatctgtgatattgga	439525	-	-	-
22035	FLJ43842	NM_198440.1	753	tgcgggtggcccatatctactac	437765	-	-	-
22036	FLJ44112	NM_198520.1	1990	gtgctgcgacaataaatttgt	439036	-	-	-
22037	FLJ44186	NM_198508.1	1196	cggcgagagacaacttgatata	438796	-	-	-
22038	FLJ44216	NM_198567.1	2262	tggctggtcaaacagcagtaactga	439672	-	see also 10346 line	-
22039	FLJ44299	NM_198491.1	740	aagcgggtggaggtgtttctagc	438550	-	-	-
22040	FLJ44691	NM_198506.1	1348	ctgtatctagcgcatcatcat	438770	-	-	-

667

図46 (続き)

22041	FLJ45235	NM_198493.1	321	ctgggcaagtgacgtgattaga	438558	-	-
22042	FLJ45246	NM_198484.1	1427	ctgcctacatctggaataccttc	438507	-	-
22043	FLJ45273	NM_198461.1	1062	aagcgggttgacgtggtttatc	437949	-	-
22044	FLJ45645	NM_198557.1	292	atgtatataatcgacaagaacc	439482	-	-
22045	FLJ45651	NM_198442.1	1190	caggctcatgctgtccaattct	437778	-	-
22046	FLJ45778	NM_198532.1	524	caggggcctcogtaccatctatgc	439256	-	-
22047	FLJ45909	NM_198445.1	893	gtcgcgatcgccacagattctgg	437815	-	-
22048	FLJ46072	NM_198488.1	1853	aagtcacactacagagatttatog	438532	-	-
22049	FLJ46154	NM_198462.1	2941	aggatcgtataggaagtaatt	438000	-	-
22050	FLJ46156	NM_198499.1	2765	aggagagaccacggatatttagt	438701	-	-
22051	FLJ46247	NM_198529.1	1237	gggtcacgcagagagctctattgc	439168	-	-
22052	FLJ46909	NM_198469.1	247	tggccataaaggccacataatcg	438397	-	-
22053	FLJ90005	NM_153341.1	888	aaggcctgactagtgtattgagc	422827	-	-
22054	FLJ90013	NM_153365.1	1441	caggcaagcogtccagtaataca	423103	-	see also 9993 line
22055	FLJ90022	NM_153690.3	1195	ctgagctgtcgcaactatttagc	423548	-	-
22056	FLJ90024	NM_153342.1	684	tggctgtcctgctcattatcacc	422839	-	-
22057	FLJ90119	NM_153347.1	363	gtgcattgctgtgtgtgtttgc	422925	-	-
22058	FLJ90166	NM_153360.1	1110	ccgctcctgggaagggtattacc	423052	-	-
22059	FLJ90406	NM_173870.1	1326	gggcctggccactcattagataat	427268	-	-
22060	FLJ90492	NM_181783.1	395	aagttaccgtcccttaacagct	433226	-	-
22061	FLJ90575	NM_153376.1	1459	ggggctggcggagggacacatca	423166	-	-
22062	FLJ90579	NM_173591.1	395	tgtctctatgccattactcaact	426356	-	-
22063	FLJ90583	NM_173828.3	1317	ctgccagctgtcgaagaagaagg	428439	-	-
22064	FLJ90586	NM_153345.1	1031	ttggcggcagctcccccattaga	422856	-	-
22065	FLJ90650	NM_173800.2	446	gtgtactctggcgtcatgaataca	427996	-	-
22066	FLJ90652	NM_173618.1	235	aggtgtcccgccacagaggttgc	426580	-	see also 10091 line
22067	FLJ90805	NM_173633.1	958	aggtactgtacacgtatgtatcg	426913	-	see also 10101 line
22068	FLJ90806	NM_182513.1	413	ccgtgtacgtggctcaactttac	434046	-	-
22069	FLJ90811	NM_153339.1	464	cgggtttgaacggcaacctatgc	427792	-	-
22070	FLN29	NM_006700.1	1407	cagccgacccattacaataatga	336143	-	-
22071	FLNC	NM_001458.1	5135	gagaacatgacgggtacacttga	330271	-	-
22072	FNBP1	NM_015033.1	590	gcgatttgaacgcgattgcaag	346999	-	-
22073	FNBP4	NM_015308.1	1839	caggatcatatagacgggtatttot	351381	-	-
22074	FRBZ1	NM_194314.1	1614	atgtgtcgcgaagttaacagaca	436777	-	see also 6321 line
22075	FRCP1	NM_022823.1	788	ctgacccggctaccccttcaaacagt	384249	-	see also 10308 line
22076	FRCP2	NM_153756.1	286	ggagagagatacggagtaactatgt	423889	-	-
22077	FS	NM_021996.3	634	tgggaagtaacacattcttcac	381671	-	-
22078	FTS3	NM_017647.2	979	aggagctcaggtcgctactaac	360079	-	see also 7077 line
22079	FXD4	NM_173160.1	498	cattctgagtggaataatcraaa	424775	-	channel
22080	FZR1	NM_016263.2	220	caggattaacagagatgagaagt	356658	-	cell cycle
22081	G30	NM_172368.1	400	cagtgccaggtctgttgaaag	424479	-	-
22082	G6PC3	NM_138387.1	687	tggcttgtcgggaattcttcatct	407875	-	-
22083	GA17	NM_006360.2	670	gtgtattgtacggcattgaaag	335330	-	-
22084	GAB2	NM_012296.2	803	aagccgagccggcacaatacaga	337961	-	-

899

圖46 (統) 北

					-	-	-	-	Ewing's sarcoma(ユ-イーイング肉腫)	
22086	GAGED2	NM_020411.1	412						molecular_function unknown	
22087	GAJ	NM_032117.2	276							
22088	GALNT10	NM_017540.3	648						see also 7020 line	
22089	GALNT11	NM_022087.1	1592							
22090	GALNT15	NM_145292.2	695							
22091	GALN7	NM_054110.2	1639							
22092	GBAS	NM_001483.1	548							
22093	GBDR1	NM_016172.1	441							
22094	GBL	NM_022372.2	450							
22095	GBP	NM_017870.2	3038							
22096	GCET2	NM_152785.2	202							
22097	GCP16	NM_016099.1	391							
22098	GDAP1L1	NM_024034.3	600						see also 8566 line	
22099	GDAP2	NM_017686.1	1421							
22100	GDDR	NM_182536.1	327							
22101	GDF7	NM_182828.1	833							
22102	GEFT	NM_133483.1	611							
22103	GEMIN5	NM_015485.1	2694							
22104	GEMIN6	NM_024775.8	454							
22105	GEMIN7	NM_024707.1	573							
22106	GJA8	NM_005267.2	1334						connexon channel	catactact(白内障)
22107	GJB7	NM_198568.1	700							
22108	GK001	NM_020198.1	950							
22109	GK003	NM_020192.1	647							
22110	GL004	NM_020194.4	619						see also 7800 line	
22111	GL009	NM_032492.2	611						see also 9220 line	
22112	GLS2	NM_032575.1	564							
22113	GLTDC1	NM_182974.1	1022							
22114	GLTSR1	NM_015711.1	3730							
22115	gm117	NM_198077.1	179							
22116	GMH1	NM_014044.4	1451						see also 5471 line	
22117	GNPNAT1	NM_198086.1	419							
22118	GnT-X	NM_144677.2	517						see also 9049 line	
22119	GORASP1	NM_031899.2	529						see also 7302 line	
22120	GPP34R	NM_018178.3	464						receptor_activity、 gpcr、 signal_transduction	
22121	GPR103	NM_198179.1	538							
22122	GPR107	NM_020960.1	276							
22123	GPR141	NM_181791.1	628						receptor_activity、 gpcr、 signal_transduction	

図46 (続き)

669

22124	GPR144	NM_182611.1	2459	tggcccgctgtggttaatacacc	434674	-	receptor_activity, gpcr, signal_transduction	-	-
22125	GPR8	NM_005286.2	365	cggtagaccactacaacatcttc	333589	-	receptor_activity, gpcr, signal_transduction	somatostatin receptor	-
22126	GPT	NM_005309.1	969	tcgtgcctctgtgtcatcaacc	333626	-	-	alanine amino transferase	-
22127	GPX6	NM_182701.1	196	acggcgaggagacacccaattc	434873	-	-	-	-
22128	GRASP	NM_181711.1	524	cagcgtcaatggccgaatgtgg	432875	-	receptor_activity	-	-
22129	GRCC10	NM_138425.2	223	gggtaagatgctgcaattcgtgc	408102	-	-	-	-
22130	GRLF1	NM_004491.2	2222	ttggttacggagcgaacattaat	332562	-	transcription_regulat or, cell_cycle, signal_transduction	-	-
22131	GRPEL2	NM_152407.2	587	ctggcacagtgccattagtaaga	416373	-	see also 9857 line	-	-
22132	GRWD1	NM_031485.2	257	cggagtcggggacacaaattcc	397203	-	-	nutrient reservoir	-
22133	GSDML	NM_018530.1	1340	ctgtgcctgtatgttgtctct	372164	-	-	-	-
22134	SGS1	NM_031289.1	475	ggagtgccgaagtttcaattgaac	396507	-	see also 9003 line	-	-
22135	GF2IR2D	NM_173537.1	1349	tggagggcagctgagttatcaaa	425698	-	-	-	-
22136	GW112	NM_006418.3	1024	atgtacaacccggggaattatgc	335517	-	-	-	-
22137	H2AV	NM_012412.2	367	gtgtctggagctggcaggaatgc	338142	-	-	-	-
22138	H326	NM_015726.2	1169	ggggctgtatcacgatatctatga	355247	-	see also 6542 line	-	-
22139	H63	NM_138423.2	1253	cagtcctctcagcgttttaattc	408091	-	see also 9618 line	-	-
22140	HABP4	NM_014282.1	1113	cgggaaacccggccaatgacatca	340023	-	-	-	-
22141	HAGHL	NM_032304.1	677	gggagcagcccgacagatgtacc	399603	-	-	-	-
22142	HATH6	NM_032827.3	1061	caggtgcctgtactactcatatgg	401738	-	see also 9297 line	-	-
22143	HB-1	NM_021182.1	162	aagtcgggaattggtgaagtga	380666	-	-	antiviral response protein	-
22144	HBXIP	NM_006402.2	163	cggacgttgccaccggtgcaatt	335386	-	-	-	-
22145	HCA3	NM_138703.2	900	tggccgggtgtatggcactaatcc	408637	-	-	-	-
22146	HCCA2	NM_053005.2	181	cgcggagattgaccttaacagagt	405761	-	see also 9480 line	-	-
22147	HCCR1	NM_015416.2	942	ctgaattctacgcattatgttga	352361	-	-	-	-
22148	HCDI	NM_020195.1	855	cggctcaggcccaacttcttc	376068	-	-	-	-
22149	HCG4	NM_018985.1	871	gggtcgtggggaactttagaacc	374065	-	-	-	-
22150	HCMOGT-	NM_152904.1	710	gtgacacggaacctatgataaga	421574	-	-	-	-
22151	HCONGP	NM_013260.3	47	tgcgagttacgcgggaagattca	338482	-	-	-	-
22152	HDCMA18	NM_016648.1	1002	tgtgtatcacgaacaagaagatt	358698	-	-	-	-
22153	HE9	NM_172000.1	737	ctgtcggcatgtgatcatatg	424179	-	-	-	-
22154	HEBP2	NM_014320.1	684	gtgtttgtacggtttcttcgatgg	340180	-	-	-	-
22155	HEIL1	NM_032362.1	4	gagagaatagtgcattgtgaagg	399995	-	-	-	-
22156	HELB	NM_033647.2	202	cgggtgcctccggtttctattt	404157	-	-	-	-
22157	HEMGN	NM_018437.3	733	aagacaactctcttaacacatgc	371524	-	-	-	-
22158	EDDG1	NM_006553.2	473	aagtttaattggccaatacagatat	335806	-	-	-	-

図46 (続き)

670

22159	HHIP	NM_022475.1	1505	ctgttaagcctcgaattccatcc	383220	-	see also 8397 line
22160	HHL	NM_014857.2	1981	atgtgtcaagaatcgctctataag	344895	-	see also 6054 line
22161	HHLA1	NM_005712.1	1578	tggcgcctcgtctgagataatg	334205	-	-
22162	hLAN2	NM_024711.2	338	aggagcgtcttcagctctaaact	389491	-	-
22163	hLAN6	NM_175571.1	734	ttgagctcttggtaatacgaac	429024	-	-
22164	hLAN7	NM_153236.2	813	tagtagaaggaggaataagcataaa	422456	-	-
22165	HIC1	NM_006497.1	2136	gggaaccatcgaccgtttctctcc	335696	-	transcription_regulat or, cell_cycle
22166	HIF1AN	NM_017902.1	851	gtggcatcaatagatagctattac	363736	-	transcription factor leukemia(白血病)
22167	HILS1	NM_194072.1	549	tggccggaatgcctatcacttc	436063	-	-
22168	HIMAP2	NM_015660.1	566	atgcacgactcagatacaaacg	354947	-	-
22169	HIMAP4	NM_018326.2	87	cagcccaataaggcaagtatgagc	370388	-	-
22170	HINT2	NM_032593.1	417	tggataccgactgtgtgacacg	400965	-	-
22171	HIP14	NM_015336.1	1424	gggcgaatcagcgccttgattgg	351654	-	see also 6369 line
22172	HIP14L	NM_019028.1	1444	ctgtgagctcgtatgatcaac	374558	-	see also 7667 line
22173	HIRIP5	NM_015700.1	792	agggcgtagaacagggtatggatg	355152	-	-
22174	HIS1	NM_006460.1	1250	aaggatccgagccgagatgttcg	335590	-	-
22175	HIST1H4B	NM_003544.2	133	aagcgaattccggtttgattta	331765	-	-
22176	HIST1H4L	NM_003546.2	161	ggagacacccggaggtcttaaatg	331768	-	-
22177	HIST4H4	NM_175054.2	212	ccggggaggtctcacaagtcttc	428901	-	-
22178	HIVEP2	NM_006734.2	2811	caggctagtctggcaacaaca	336224	-	see also 4756 line
22179	HWI2	NM_152431.1	2059	tggatgcgtggccagtgtaacc	416739	-	-
22180	HKR2	NM_181846.1	818	gtgcctcagggaacagttctagt	433810	-	transcription_regulat
22181	HLC-8	NM_017941.3	1192	ggagacactatcagctttcattc	384456	-	or
22182	HMGAI1L4	NM_031288.1	362	tagctgatatgaagacagtaattc	396502	-	-
22183	HNLF	NM_182547.2	174	tggctcctcggcaactatcgtacc	434325	-	-
22184	HNOEL- HOM-	NM_020190.1	153	acgccgaactagctgctgttagagg	375903	-	-
22185	TES-85	NM_016383.1	535	cagatctcaaggcagctaaaga	357270	-	-
22186	HOOK1	NM_015888.3	1431	cagacacactagctgttgaatag	355338	-	see also 6562 line
22187	HOXA13	NM_000522.2	1014	acgggaataacgccacgaataat	329696	-	see also 400 line
22188	HOXD12	NM_021193.2	683	acgaattcctcgtccaagaattc	380748	-	transcription_regulat
22189	HPS3	NM_032383.3	2831	tcgtacacgcttgaagagtag	400175	-	transcription factor - Hermansky-Pudlak syndrome(Hermansky-Pudlak 症候群)
22190	HPS5	NM_007216.3	1688	cagttcgcattcattaccatt	337155	-	-
22191	HPS6	NM_024747.4	715	tggcgtggccacagcttactca	389892	-	-
22192	HRASL5	NM_020386.2	809	aggccaacccagagataagtag	377365	-	-
22193	HRASL2	NM_017878.1	358	tgggcagaggtgcttatttcg	363371	-	-
22194	HRD1	NM_032431.1	1724	ggagactgcccactacagttgtgc	400230	-	see also 9187 line
22195	HRLP5	NM_054108.1	297	gtgcccactcaggtctaaatag	406026	-	-
22196	HSA27598	NM_018403.1	389	atgcagcttgcgatatag	371149	-	see also 7448 line
22197	HSCARG	NM_020677.2	523	aggctgcaaggtgcagaagtag	377922	-	-

671

図46 (続き)

22198	HSPBAP1	NM_024610.3	976	gaggcaatcacccgctgctgt	387856	-	see also 8667 line	-	-
22199	HSPC043	NM_021218.1	318	gagacccctctttaaaggact	380785	-	-	-	-
22200	HSPC056	NM_014154.1	905	gagcaattcgacacgatgaac	339684	-	see also 5519 line	-	-
22201	HSPC063	NM_014155.1	385	gagcaattctatcaattaacaca	339689	-	see also 5523 line	-	-
22202	HSPC065	NM_014157.2	435	cagcatcacgagcgcatgaatga	339714	-	-	-	-
22203	HSPC072	NM_014162.1	368	agggaagacatcctacacaagc	339766	-	-	-	-
22204	HSPC109	NM_016390.2	1033	ttgacctgtacgtcaatccctgt	357278	-	-	-	-
22205	HSPC128	NM_014167.1	402	tagcatgagagccgtttatttg	339801	-	-	-	-
22206	HSPC129	NM_016396.1	382	gagtagaatgaacggtatag	357283	-	-	-	-
22207	HSPC132	NM_016399.2	80	ggatcagaccagtgttcaatcgg	357371	-	-	-	-
22208	HSPC135	NM_014170.1	78	gagcgaactgagccgctataatag	339808	-	-	-	-
22209	HSPC138	NM_016401.2	570	cagcagactcctgtaggaatgc	357384	-	-	-	-
22210	HSPC142	NM_014173.1	945	aagggtaccagctacaaagtatga	339843	-	-	-	-
22211	HSPC154	NM_014177.1	353	ctgcacactagatattcttgg	339871	-	-	-	-
22212	HSPC157	NM_014179.1	565	cagaatcaactggttaagtctgc	339901	-	-	-	-
22213	HSPC166	NM_014186.1	395	tggactggagggaggatataaaa	339966	-	-	-	-
22214	HSPC171	NM_014187.1	178	aagttctacctcggtgataact	339968	-	-	-	-
22215	HSPC196	NM_016464.2	385	tgtcaacctctctattccataag	357586	-	-	-	-
22216	HSPC242	NM_016498.2	610	ctgttgacctcccatcattat	357886	-	-	-	-
22217	HSPC268	NM_197964.1	264	ctgcgtagctcgggaacacatgt	436923	-	-	-	-
22218	HSU15552	NM_014597.1	65	aagccgctcggtgaaagtcc	340913	-	-	-	-
22219	HSU79274	NM_013300.1	637	tagctaactgcgaagatgtag	338686	-	-	-	-
22220	hSyn	NM_018157.1	309	ctgcgactagcgaagctaaatga	367783	-	see also 7288 line	-	-
22221	HT007	NM_018480.2	751	atggcgattctctgtctttca	372031	-	-	-	-
22222	HT009	NM_018470.1	549	atgacacactatttaacgaact	371928	-	-	-	-
22223	HT011	NM_018472.1	526	ctgccttcaactaggtatttgt	371937	-	-	-	-
22224	HT014	NM_020362.2	676	gtgacatctgcaattacgaagc	376904	-	see also 7847 line	-	-
22225	HT017	NM_020678.2	285	cagactcgaacgtgcatttaca	377929	-	-	-	-
22226	HT021	NM_020685.3	212	gagaataaattgggtgatacaaca	377979	-	-	-	-
22227	HT036	NM_031207.2	411	caaggagctgctgaatagcagt	395961	-	-	-	-
22228	ht2R55	NM_181429.1	151	ttggctatctccacaattggaca	432096	-	-	-	-
22229	HTPAP	NM_032483.2	298	tggcgtctttacccaacacaataa	400365	-	-	-	-
22230	HTR1A	NM_000524.1	548	ccgaocgatgcaccattgcaag	329706	-	receptor activity, gpcr, signal transduction	Smad3/Sp-1 heterodimer	-
22231	HTR3D	NM_182537.1	394	cagccctacgttgtaacttctc	434230	-	receptor activity	-	-
22232	HTR3E	NM_182589.1	676	atgaaggctcgcatcaggataag	434554	-	-	-	-
22233	HUMAGCG B	NM_013286.2	862	gggagcattcgagccattgatca	338669	-	-	-	-
22234	HUMPPA	NM_014603.1	1715	gagtaacaggcgctcttcaaga	340990	-	-	-	-
22235	HYPB	NM_012271.1	607	gtcttccgttataaatctacc	337801	-	-	-	-
22236	HYPB	NM_012272.1	2181	gagttgaaggcagcattccatga	337936	-	see also 5247 line	-	-
22237	IAN4L1	NM_018384.2	318	gggggcaaatatggaactatgg	370970	-	-	-	-
22238	IBRDC1	NM_152553.2	994	tagggggcctaagcgtgtgtaatc	418064	-	-	-	-

図 46 (続き)

672

22239	IDN3	NM_015384.2	1865	aggtatgatagatcaatcagtg	351997	-	cell_cycle	-
22240	IER5	NM_016545.2	893	cggtctgaccccgctcaagaagc	358079	-	-	-
22241	IF130	NM_006332.3	577	agggctgtcgccagacacatca	335217	-	oxidoreductase	-
22242	IF144	NM_006417.2	905	cagtaacattcgtgatagacc	335479	-	RNA polymerase II transcription factor	-
22243	IF172	NM_001547.3	503	aagggtagacacgggttaagtgt	330351	-	RNA polymerase II transcription factor	-
22244	IFX	NM_152501.2	884	togcgatggttaaatgaaca	417236	-	-	-
22245	IFRG15	NM_022347.1	110	aggtattcttagacagatataac	382633	-	see also 8337 line	-
22246	IGJ	NM_144646.2	460	gtggctccactcgtatattgtgg	410726	-	antigen binding	-
22247	IGRP	NM_021176.1	50	aggaactacggagcttactaact	380580	-	see also 8116 line	-
22248	IGSF11	NM_152538.1	1262	tgtccgggtcaacataagact	417763	-	-	-
22249	IGSF3	NM_001542.1	3479	toggcatcgtgttcttagatata	330323	-	-	-
22250	IGSF4	NM_014333.2	782	gggaacggcttgatttaacatgt	340201	-	see also 5628 line	-
22251	IGSF9	NM_020789.2	1896	cagcgtgttagctcagacaagc	379034	-	see also 7968 line	-
22252	IL17RC	NM_032732.2	727	aggtacgaatcgtgtctactact	401299	-	receptor_activity	-
22253	IL17RE	NM_144640.2	700	ggagtcagcgtgcgtctttgtca	410623	-	-	-
22254	IL23A	NM_016584.2	317	gtggacacatggatctaagaga	358227	-	-	-
22255	IL17	NM_024317.2	535	ctggataccacagggttactatct	386248	-	-	-
22256	IMAGE345	NM_012276.2	1038	atgggaacccgatgtcacttcc	337953	-	receptor_activity	-
22257	1454	NM_053052.2	1347	tagcatccgccagcgggtttattg	405900	-	-	-
22258	IMAGE345	NM_024006.2	252	caggacacgcatcctcaatcaatc	385459	-	-	-
22259	IMP1	NM_130759.2	564	gggctccctgcacgattactga	406923	-	-	-
22260	IMMT	NM_006839.1	1045	ctggggccaaagcctcaataact	336440	-	see also 4794 line	-
22261	IMP-2	NM_006548.3	1728	aggaagtgatgctcagaattatc	335777	-	see also 4590 line	-
22262	IMP4	NM_033416.1	357	atgaaccgaggtcgacatgaagt	403831	-	-	-
22263	INM01	NM_175075.2	748	cagcatctctctggaaagatgtaa	428999	-	-	-
22264	INSIG2	NM_016133.2	824	tgtctgacaactgagcaatgtacg	356431	-	-	-
22265	INSM2	NM_032594.2	1826	gggctgaacccggcacatcaataa	400976	-	-	-
22266	INVS	NM_014425.2	1600	cagcatatggggcttatataac	340616	-	see also 5671 line	-
22267	IRA1	NM_024665.2	440	tgtttgattgtcgaccaataga	388741	-	see also 8693 line	-
22268	IREM2	NM_181449.1	139	cagtgtgtgtcaagtatgagagc	432135	-	receptor_activity	-
22269	IRF2BP1	NM_015649.1	440	gtgtcgccgctgctgtaactcg	354860	-	-	-
22270	IRF2BP2	NM_182972.1	1058	ggggccaacgggtctaaagcagt	435504	-	-	-
22271	IRTA1	NM_031282.1	1478	cagtgtgtgtgtgtgtgtaca	396484	-	-	-
22272	IRTA2	NM_031281.1	2880	ctgcaaccaggtgtacataatgc	396466	-	-	-
22273	IRX2	NM_033267.1	1224	agggctctctcgaggtacaactct	403647	-	-	-
22274	ITGA1	NM_181501.1	443	ggggccttatatgcctatagatg	432204	-	receptor_activity, signal transduction	magnesium binding
22275	ITIH5	NM_030569.2	2669	ggggcgtcttaacagtgaaagg	394669	-	see also 8889 line	-
22276	ITR	NM_180989.3	335	atgaaccacggacacataatct	432057	-	receptor_activity	-
22277	JAM3	NM_032801.3	541	ggagattgatcgagttactgt	401567	-	-	-

673

図46 (続き)

22278	JM1	NM_014008.1	1741	ctgttggaaggcctaagtat	339016	-	see also 5453 line	
22279	JM11	NM_033626.2	1789	agccctcagggtgcatcacaac	404144	-	-	
22280	JM4	NM_007213.1	194	gggtacgtcgggccacttaac	337117	-	-	
22281	JM5	NM_007075.1	331	gtgttagtagtcccaagttcca	336931	-	see also 4945 line	
22282	JMJD1	NM_018433.2	2695	cagtcctccatacgtttaacagc	371433	-	-	
22283	JMY	NM_152405.1	868	cagcgaactcggattgaagatga	416338	-	see also 9855 line	
22284	JPHL1	NM_032452.1	2117	cagctcgaatggccaaactgata	400349	-	-	
22285	JWA	NM_006407.2	409	tggcgagctattccttattctcc	335397	-	-	
22286	K5B	NM_173352.1	682	caggctgcacactgagaacg	424812	-	-	
22287	K6RS3	NM_175068.2	1579	tgggagtgcaagtgaattcagg	428984	-	-	
22288	K6RS4	NM_175053.2	209	gggggaatcggcgattttcttc	428895	-	-	
22289	KAB	NM_014812.1	266	aaggattccgggaacagactata	344203	-	-	
22290	KCNJ11	NM_000525.2	1484	ggaggaggacggacgttacttgt	329721	-	channel	ATP-activated inward rectifier
22291	KCTD8	NM_198353.1	602	caggctacgtgtgtgattatctgc	437681	-	see also 10316 line	potassium channel diabetes mellitus(糖尿病)、diabetes(糖尿病)
22292	KCTD9	NM_017634.2	856	tggacottcgatacattacttc	359808	-	-	
22293	KDEL01	NM_024089.1	1131	tgtgtgctcctacgtactatttg	385858	-	-	
22294	KENAE	NM_176816.2	1121	atgacacaggcactacaattgaca	429796	-	see also 10160 line	
22295	KEOA	NM_006459.2	161	tggaccagctatcatatcatgt	335556	-	see also 4531 line	
22296	KIAA0036	NM_014642.1	680	ctgcaaatgtccaaataggatct	341599	-	-	
22297	KIAA0040	NM_014656.1	1004	gggacacatgggacaattcttgg	341794	-	-	nucleic acid binding
22298	KIAA0053	NM_014882.1	1663	acggacttccactacgaataacg	345240	-	see also 6076 line	
22299	KIAA0063	NM_014876.3	797	ggagcggcgtcagggaagttctt	345100	-	-	
22300	KIAA0076	NM_014780.2	4916	caggctgagatgggacattgtgc	343263	-	cell cycle	
22301	KIAA0087	NM_014769.1	621	agggcagctctggagacattcaata	343191	-	-	
22302	KIAA0090	NM_015047.1	2332	tggcgtcactgggctgtatcatc	347506	-	see also 6205 line	
22303	KIAA0092	NM_014679.1	722	aaggaaacgcagcaagtaagg	342129	-	see also 5881 line	
22304	KIAA0095	NM_014689.1	1016	ctgtgtggcgctaatattactac	342010	-	see also 5846 line	
22305	KIAA0101	NM_014736.3	360	ttgcaaccctgatcacacaatga	342890	-	-	
22306	KIAA0140	NM_014661.1	662	cagctccagcgtctattccaacg	341886	-	-	
22307	KIAA0141	NM_014773.1	976	agggcgtctcttattatcagttg	343220	-	-	
22308	KIAA0196	NM_014846.1	3098	ctgcgtatctcggaggctataatg	344744	-	see also 6049 line	
22309	KIAA0233	NM_014745.1	1130	ctgcgtatcctcgtgtgtaaga	342981	-	-	
22310	KIAA0252	NM_015138.2	1048	tgcattatcagcgcataagctag	348575	-	-	
22311	KIAA0258	NM_014785.1	954	aggaatctcgtcactacataact	343517	-	see also 5968 line	
22312	KIAA0266	NM_021645.1	2234	cagaggctcagagaggtacaaac	381017	-	-	
22313	KIAA0274	NM_014845.4	611	aagctaggtatctacgaattatt	344579	-	see also 6047 line	
22314	KIAA0276	NM_015115.1	758	tgtgtcaatgtctcagagtttag	348207	-	see also 6254 line	
22315	KIAA0319	NM_014809.1	2034	cggacggagcccaactactaca	343864	-	-	
22316	KIAA0329	NM_014844.1	260	gggttctcccggttgtactatct	344510	-	-	
22317	KIAA0355	NM_014686.1	1539	ctgagcgacatctagactaaga	342160	-	-	
22318	KIAA0391	NM_014672.1	372	ttgtttgtattcgaagcttcc	342045	-	-	
22319	KIAA0399	NM_015113.2	8637	cagactggccatcaacgattaaa	348193	-	-	

674

図46 (続き)

22320	KIAA0406	NM_014657.1	2191	ggagcaaaaccctactcattagt	341847	-	see also 5826 line
22321	KIAA0408	NM_014702.1	1980	ggagcagtagccacttagaatt	342409	-	-
22322	KIAA0409	NM_015324.2	1036	ttgcgcgcttggtctcaaglatcc	351579	-	-
22323	KIAA0431	NM_015251.1	996	tagtaagtgcagcaattcgtacg	350275	-	-
22324	KIAA0476	NM_014856.1	1048	ctggtgtacagcagctctacg	344821	-	-
22325	KIAA0483	NM_015176.1	345	tggaagagtagccaatactatgt	348924	-	see also 6268 line
22326	KIAA0513	NM_014732.1	776	gggtcgcggcagctgagaatga	342881	-	-
22327	KIAA0555	NM_014790.1	1957	ggagcagatccctccattaatc	343601	-	-
22328	KIAA0582	NM_014704.1	2188	ccgcgagacggcgggttcgaatta	342617	-	see also 5897 line
22329	KIAA0582	NM_015147.1	1371	gggaagagaccggctgactatagg	348614	-	-
22330	KIAA0586	NM_014749.1	2187	agggccatcgaagcacctctaaa	343047	-	-
22331	KIAA0590	NM_014714.1	1551	gggtcaaacccgggttcaagtccg	342657	-	-
22332	KIAA0605	NM_014694.1	2034	ggagcttcttcgtgattatga	342371	-	-
22333	KIAA0625	NM_015046.4	1640	gggtggaagccgctgcataatgt	347261	-	see also 6202 line
22334	KIAA0632	NM_015545.2	2086	acggcttcggcgcctattacaag	353864	-	-
22335	KIAA0635	NM_014645.1	1191	cagttacagagacgaacttact	341621	-	see also 5819 line
22336	KIAA0638	NM_015157.1	1017	ctgtacocagtggtctaatggtgg	348634	-	-
22337	KIAA0643	NM_024793.1	348	atgaacattcttgagaaatt	390757	-	-
22338	KIAA0644	NM_014817.1	1615	cagcagcagggcggtttctagc	344308	-	-
22339	KIAA0648	NM_015200.1	2764	atgtctcgttgctgattagctgc	349787	-	-
22340	KIAA0649	NM_014811.1	2562	aaaggccctagcagagaaagaga	344185	-	-
22341	KIAA0652	NM_014741.1	1461	gtgaacctgaagaggtttggtat	342912	-	-
22342	KIAA0672	NM_014859.1	1778	gcctgcacaggaataatgatg	344932	-	see also 6061 line
22343	KIAA0683	NM_016111.1	1350	ggcggaacagccgggtagaactgc	356292	-	-
22344	KIAA0685	NM_014678.2	2436	ttgatgagccagcgaactcaacg	342115	-	-
22345	KIAA0690	NM_015179.2	1191	acggccctgaocgactatgtcc	348956	-	-
22346	KIAA0720	NM_020631.2	2173	ctgggtggagacaccattacaatg	377820	-	kinase_related
22347	KIAA0738	NM_014719.1	694	aggggacacaggtttctttaaag	342827	-	-
22348	KIAA0746	NM_015187.1	2161	ggagatcctgctgtaactataga	349515	-	see also 6272 line
22349	KIAA0748	NM_014796.1	1660	cagaaactgctgcggtctttaagc	343665	-	see also 5991 line
22350	KIAA0753	NM_014804.1	2469	caggagtctgttctgtaaaagata	343767	-	see also 5998 line
22351	KIAA0759	NM_015305.2	1348	ttgtgcgggagacctaattcigt	351331	-	see also 6320 line
22352	KIAA0763	NM_014869.1	2053	cggactacaccagcaggaatct	345059	-	-
22353	KIAA0831	NM_014924.2	563	togacagatccatattagagc	345771	-	-
22354	KIAA0853	NM_015070.2	3576	ggagacccctcagctgactataga	347802	-	-
22355	KIAA0861	NM_015078.2	2305	cagcccaactggatccaactct	347919	-	-
22356	KIAA0874	NM_015208.2	1947	ctgattctgttggtgataat	349881	-	see also 6278 line
22357	KIAA0889	NM_015377.1	537	cgggcatccagcttactatagt	351938	-	-
22358	KIAA0893	NM_014969.3	1416	gggctctatccagcagtaactct	346520	-	see also 6158 line
22359	KIAA0903	NM_015252.1	2762	tagtccacatcgtgttatct	350361	-	see also 6292 line
22360	KIAA0907	NM_014949.1	1204	gggtcttgcggcattaccact	346278	-	see also 6147 line
22361	KIAA0922	NM_015196.2	947	caggatataccatttctaca	349567	-	see also 6276 line
22362	KIAA0963	NM_014963.1	1368	gtgttcagcaggtgtcacaaagc	346384	-	-
22363	KIAA0970	NM_014923.2	1980	atggcgggaggaaccactcaataa	345720	-	-

675

図46 (続き)

22364	KIAA0971	NM_014929.1	1121	atgaatcaccgatgtattat	345927	-	-	-
22365	KIAA0977	NM_014900.1	2302	aggagtcaggcaccctaattat	345416	-	-	-
22366	KIAA0982	NM_014023.1	1571	ttgaccagcagccattggtgg	339315	-	-	see also 5462 line
22367	KIAA1007	NM_016284.2	4507	gtgagatgatacaattagattgc	356799	-	-	see also 6780 line
22368	KIAA1018	NM_014967.1	2364	gggacgactggcccttaattta	346499	-	-	see also 6156 line
22369	KIAA1023	NM_152558.1	1921	atgattccgacgatattgcaatt	418108	-	-	-
22370	KIAA1033	NM_015275.1	1744	aagcaacggcgactattgttc	350784	-	-	-
22371	KIAA1043	NM_015281.1	736	tgcgcgcaataaacctgtaaca	350867	-	-	see also 6311 line
22372	KIAA1049	NM_014972.1	276	cgcgttcaggctgataaacattg	346557	-	-	-
22373	KIAA1052	NM_014956.1	582	tgcgcaacggcgactctattgg	346326	-	-	see also 6151 line
22374	KIAA1068	NM_015332.2	961	tggacaggcttaacctgactac	351627	-	-	-
22375	KIAA1074	NM_014915.1	3874	ggggttacgtacggttatcgat	345611	-	-	-
22376	KIAA1115	NM_014931.1	2201	acgccaacctacttgagatagc	345989	-	-	-
22377	KIAA1117	NM_015018.2	1039	aggccaactcgaccggatgatac	346802	-	-	-
22378	KIAA1143	NM_020696.1	141	gggacccaccgttagagactaaga	378154	-	-	-
22379	KIAA1160	NM_020701.1	236	atgacggccttagcaagatttcg	378166	-	-	-
22380	KIAA1181	NM_020482.1	233	gcgtgtgaacgagctctatgctg	377674	-	-	-
22381	KIAA1185	NM_020710.1	1389	cagacaggtagtgattcccttc	378263	-	-	-
22382	KIAA1191	NM_020444.2	502	gtgattccagagcgcaagtatca	377475	-	-	-
22383	KIAA1194	NM_015455.2	544	aagaagcttaagcgcatctttgt	353187	-	-	-
22384	KIAA1199	NM_018689.1	3936	tggacgacttcgttacataga	372635	-	-	see also 7562 line
22385	KIAA1219	NM_020336.1	995	cagattgctacgctttacatatg	376552	-	-	-
22386	KIAA1221	NM_032186.2	3685	atggagatagtcggttgatgat	398630	-	-	-
22387	KIAA1244	NM_020340.2	3582	cgcaccttcgagcgcatatgc	376726	-	-	-
22388	KIAA1279	NM_015634.1	1332	ggagcgggtgcaagatgcatataac	354808	-	-	-
22389	KIAA1280	NM_015691.2	3213	aagacgaacccctcgctataagc	355132	-	-	-
22390	KIAA1287	NM_020748.1	3155	ctgacgggtcgcgaggtatccatc	378454	-	-	see also 7930 line
22391	KIAA1295	NM_017963.2	330	atgccaggttacggttagtoattt	364890	-	-	-
22392	KIAA1318	NM_020769.1	697	atgtccgcaacgctaattgtagc	378619	-	-	-
22393	KIAA1322	NM_020773.1	523	aggctatgactcgttagaagctct	378742	-	-	see also 7950 line
22394	KIAA1324	NM_020775.2	2506	gggaataccggacgctgactctct	378910	-	-	-
22395	KIAA1336	NM_020779.2	1739	tagccgtcttgctatcatagaca	378981	-	-	see also 7964 line
22396	KIAA1383	NM_019090.1	2303	tagtagtgacaggaggtctatcc	375202	-	-	-
22397	KIAA1404	NM_021035.1	2221	aagggcctacatgagtagtatga	380419	-	-	transcription_regulat or
22398	KIAA1407	NM_020817.1	2889	aagggtaccacgagctatatcagc	379186	-	-	-
22399	KIAA1446	NM_020836.2	416	aggacaacgagctctataggag	379383	-	-	kinase-related
22400	KIAA1449	NM_020839.2	150	cagccggtcgagactctatcata	379391	-	-	see also 7986 line
22401	KIAA1465	NM_020851.1	240	cggactcgcgttacaagaaggttg	379612	-	-	-
22402	KIAA1468	NM_020854.2	2051	caggagctcttactgtttattt	379686	-	-	see also 7995 line
22403	KIAA1508	NM_020880.2	485	aagagtcacccctgtgagatttg	379857	-	-	-
22404	KIAA1518	NM_015493.3	1971	cggcaggcgtcgagctatcatcag	353568	-	-	-
22405	KIAA1524	NM_020890.1	1093	tggctctactgcgtggttaagc	380015	-	-	see also 8016 line
22406	KIAA1533	NM_020895.2	1692	gtggagcggcattgaagactatt	380081	-	-	-

676

図46 (続き)

22407	KIAA1536	NM_020898.1	1893	gggggtgaggaggccaaacttact	380098	-	-	-
22408	KIAA1587	NM_020932.1	2106	atggcagcggttacttagactaca	380171	-	see also 8037 line	-
22409	KIAA1598	NM_018330.2	369	tgggtctgtatcagtgtaaca	370435	-	-	-
22410	KIAA1608	NM_024820.1	1317	caatttatgattgctgattaga	391098	-	see also 8765 line	-
22411	KIAA1609	NM_020947.2	1049	gaggtgaagcctcaggttcaagg	380218	-	-	-
22412	KIAA1627	NM_020961.2	618	atgtacttaacagccgatataga	380262	-	-	-
22413	KIAA1701	NM_030639.1	1247	aggcaagccctcttcataatt	394784	-	see also 8914 line	-
22414	KIAA1712	NM_030633.1	349	aggtctcgtctgtctaaattat	394734	-	-	-
22415	KIAA1715	NM_030650.1	604	aaggttgatccggaactcaaga	394838	-	see also 8922 line	-
22416	KIAA1720	NM_030645.1	832	gagtcggcgaggaaactgaatac	394821	-	-	-
22417	KIAA1737	NM_033426.2	1209	caggcaactcaggtagaactaga	403896	-	see also 9424 line	-
22418	KIAA1754	NM_033339.1	1696	cagcgtcaattagcagattacc	403777	-	-	-
22419	KIAA1754L	NM_178495.3	1288	cggcagctctggggaaagttagt	430840	-	-	-
22420	KIAA1797	NM_017794.2	1583	ctgtaaccaagtattggtaca	382482	-	-	-
22421	KIAA1827	NM_032423.1	2507	cagaaatcagacattatacaga	400214	-	transcription_regulat or	-
22422	KIAA1892	NM_015397.1	907	tggctcaagtgatggtttatgg	352275	-	see also 6404 line	-
22423	KIAA1892L	NM_178470.2	387	tgcgtcgtatggcgactatctga	430830	-	-	-
22424	KIAA1893	NM_052899.1	776	atggatcccatcagctgaagaaa	404774	-	-	-
22425	KIAA1913	NM_052913.2	2987	gagattggcagcaaatatcagtcg	405288	-	-	-
22426	KIAA1919	NM_153369.1	1621	tagctcggggtaaatgaatag	423150	-	-	-
22427	KIAA1924	NM_153239.2	913	cgggtgtacagccatctcaaga	422469	-	-	-
22428	KIAA2010	NM_017936.2	1285	gtgcgaagtgtctactctgatat	364328	-	-	-
22429	KIAA2024	NM_172070.2	2178	ttgatcaatgcacatcggttaatt	424253	-	-	-
22430	KIBRA	NM_015238.1	2037	gggtcgaccgccgaattcagatgg	350150	-	-	-
22431	KIF24	NM_018278.1	151	cagcctgcgcatacaaatctcagg	369642	-	-	-
22432	KIRREL	NM_018240.3	1733	gagagccactacagctgcttct	368887	-	-	-
22433	KIRREL2	NM_032123.4	2042	cagactcaogtgtgacatctttc	397897	-	-	-
22434	KIRREL3	NM_032531.1	978	cgcacaggttgacgtctatttg	400559	-	see also 9238 line	-
22435	KLF8	NM_007250.2	745	atgctacaagctccaatcagctcc	337329	-	-	DNA binding
22436	KLHDC1	NM_172193.1	666	gggaaggtttctgcaactagg	424288	-	see also 10039 line	-
22437	KLHDC2	NM_014315.1	570	gtgatttctctctctatgtca	340157	-	see also 5618 line	-
22438	KLHDC3	NM_057161.2	231	ctgtggggcatcgggtatactcc	406097	-	-	-
22439	KLIP1	NM_024629.2	1273	aagccatctcggaataatcaacc	388280	-	-	-
22440	KRT25A	NM_181534.2	593	ctgatgtcaatgggttaacgaaga	432404	-	-	-
22441	KRT25B	NM_181539.2	889	gggtgcaacgctgcacaacacaga	432582	-	-	-
22442	KRT25C	NM_181537.2	996	cagtcctcttttagcaagaacaca	432565	-	-	-
22443	KRT25D	NM_181535.2	450	tagcagatatcaactacaattg	432416	-	-	-
22444	KRT3	NM_057088.1	1223	gggatgaactaagaataaccagg	406096	-	structural molecule	-
22445	KRT6L	NM_175834.2	44	ccgtctctcggcaacatactcc	429273	-	-	-
22446	KRTAPI2- 3	NM_198697.1	222	gagctgcagggcccatcatatag	439879	-	-	-
22447	KRTAPI3- 3	NM_181622.1	264	ctgcaattcttgctgactatgc	432615	-	-	-

図46 (続き)

22448	KRTAP13-4	NM_181600.1	453	tgagctcgcgtctcacaattca	432592	-	receptor_activity	-
22449	KRTAP15-1	NM_181623.1	58	aggtatccagttccactataa	432624	-	-	-
22450	KRTAP18-8	NM_198695.1	37	ctgcaccaggacgtatgtgattg	439877	-	-	-
22451	KRTAP19-3	NM_181609.1	195	ctgctacccgccatcatactatg	432596	-	-	-
22452	KRTAP19-4	NM_181610.1	165	aggatatggattctcaattctac	432597	-	-	-
22453	KRTAP19-6	NM_181612.1	141	atgcctgaaggatatggattct	432603	-	-	-
22454	KRTAP20-1	NM_181615.1	1	atgattactacagcaactatta	432605	-	-	-
22455	KRTAP21-2	NM_181617.1	55	tgaggattccggctgtggatatgg	432606	-	-	-
22456	KRTAP3-1	NM_031988.1	202	ctgctgaagcctgatacctatg	397546	-	-	-
22457	KRTAP6-2	NM_181604.1	165	atgcagctcttgctactactatt	432594	-	-	-
22458	KSP37	NM_031980.2	327	ttgctgtgaccccaaaccttac	397466	-	-	-
22459	LACE1	NM_145315.2	1550	ttgcatctcagcgcaaatctcc	414410	-	see also 9789 line	-
22460	LACRT	NM_033277.1	143	tgaggcccttaagcctaataag	403649	-	-	-
22461	LAI1	NM_002287.2	242	ggagagtagatccacatacaat	330746	-	-	-
22462	LALP1	NM_020354.1	1176	ctgagtcocgcgaatccattct	376847	-	see also 7844 line	-
22463	LANCL2	NM_018697.2	881	ttgaatcggtgaagactttgtca	372682	-	see also 7568 line	-
22464	LAPIB	NM_015602.2	797	acgtgacccctctaaatatacc	354424	-	-	-
22465	LARP	NM_015315.2	2472	tgttaggcgtgcttaataagac	351462	-	-	-
22466	LAS1	NM_018272.1	264	ctgcatacccaactatgatcatgt	369609	-	-	-
22467	LAX	NM_017773.1	535	aggattcgcatgattatgtcaat	362176	-	-	-
22468	LCMT2	NM_014793.3	1183	ggagcattctcgcgtaaatcc	343633	-	-	-
22469	LCN6	NM_198946.1	295	ggatgcatgagaccctgataaag	440142	-	-	-
22470	LENG8	NM_052925.1	2242	tgcccaacgccttgcatataag	405332	-	see also 9453 line	-
22471	LG12	NM_018176.2	914	acgacgagagttggaccataatt	368013	-	see also 7299 line	-
22472	LG14	NM_139284.1	787	gtgattgaggacgatcatttgc	409614	-	-	-
22473	LHFPL1	NM_178175.2	644	gtgcttataccctttaggatgg	430617	-	-	-
22474	LHFPL2	NM_005779.1	480	ctgtgggctgttgaagggaattg	334247	-	-	-
22475	LHFPL3	NM_199000.1	525	cggccactgtgtacaagatatgt	440583	-	-	-
22476	LIMS2	NM_017980.2	459	tgagctctcagctgagttcaatca	365027	-	-	-
22477	LIP8	NM_053051.1	2871	gggctctccatcccgatcatagg	405869	-	-	-
22478	LIP6	NM_005357.2	2413	tggtctcaacagggaacgaatct	333649	-	hydrolase	-
22479	LIP9	NM_021250.2	616	ctgagattcacaggttcatctct	380904	-	-	-
22480	LL5beta	NM_145753.1	765	tggtccttcaacccaagttaact	414785	-	see also 9799 line	-
22481	LLGL2	NM_004524.1	181	gcgggacctgttccagtttaaca	332613	-	-	-
22482	LMOD3	NM_198271.1	882	cagaatggtgtcactaatctgc	437394	-	-	-
22483	LNIR	NM_030916.1	1361	gtgtcctatgctccgatccatcg	395392	-	receptor_activity	-

図 46 (続き)

678

22484	LOC11247	NM_145239.1	459	aagccacagggagggaatcaaaagg	413806	-	-	-
22485	LOC11281	NM_138413.2	746	gtgtgacccctgtactatcg	407984	-	-	-
22486	LOC11286	NM_138414.1	266	gagcgaacacacattagtgaaca	407992	-	-	-
22487	LOC11317	NM_138421.1	254	cagagtatgggatataatgaagg	408052	-	-	-
22488	LOC11344	NM_138428.2	633	atgaacattggctgtcaatctct	408109	-	-	-
22489	LOC11361	NM_183075.1	1327	gtgctcaagggtatataccattcc	435619	-	-	-
22490	LOC11365	NM_138431.1	285	ggggctggcccaagggtctgtacg	408114	-	-	-
22491	LOC11373	NM_138433.2	1651	ccgccgtgatgogctacaacaca	408116	-	-	-
22492	LOC11382	NM_138435.1	706	aagtggccactggatcttacagg	408122	-	-	-
22493	LOC11465	NM_052888.1	1123	gagggcggaaacctctctacagc	404607	-	-	-
22494	LOC11492	NM_138436.2	123	gtgaogatgggtctattgattat	408128	-	-	-
22495	LOC11492	NM_138437.1	962	caggggctaacaacagactaatc	408153	-	-	-
22496	LOC11499	NM_138440.1	283	tggggctgtactgtctttgagaac	408189	-	-	-
22497	LOC11509	NM_138442.2	221	ctggaagacgacgacacacacag	408211	-	-	-
22498	LOC11510	NM_138443.2	765	ttggagctctatttagacttaat	408234	-	-	cell_cycle
22499	LOC11526	NM_145244.2	505	ggcggctgcgaggtgtgttatg	413823	-	-	-
22500	LOC11581	NM_138451.1	788	aggataaaggcccaagttcttaca	408260	-	-	kinase related
22501	LOC11623	NM_198147.1	479	tgggtgtgtaggaccttggttcg	437110	-	-	-
22502	LOC11623	NM_138463.2	752	tggacgtgatgatcataatctac	408308	-	-	-
22503	LOC11843	NM_058173.1	285	ttggggatctccgaatggtatga	406199	-	-	-
22504	LOC11939	NM_182494.1	247	aagctcggagctcgggtatgaatg	433907	-	-	-
22505	LOC11950	NM_173473.1	314	aagcttaaacacagggaacacatga	424922	-	-	-
22506	LOC11971	NM_138787.1	434	atgctaacctccaagtttagtcc	408758	-	-	-
22507	LOC12022	NM_138788.2	202	tgctggaagccgcaattaggact	408764	-	-	-
22508	LOC12037	NM_138789.2	78	tgaacacctctagatgatctagc	408782	-	-	-
22509	LOC12052	NM_181706.2	240	cagaagttcatgaaattgaca	432845	-	-	-
22510	LOC12225	NM_145248.2	405	atggcgatcctctgagaattat	413886	-	-	-
22511	LOC12316	NM_138792.2	1724	ctggaaacctgatgatacagatga	408846	-	-	-
22512	LOC12422	NM_145252.1	216	ctgaaagactacgacacatgaatc	413894	-	-	-
22513	LOC12440	NM_145253.1	299	ctgaogctctacccatgttcttc	413909	-	-	-
22514	LOC12444	NM_194280.1	532	caggacacactggtcttcttaca	436236	-	-	-
22515	LOC12477	NM_181707.1	681	aagatcccaggaccatgtcaaga	432854	-	-	-
22516	LOC12547	NM_194281.1	164	gggctatggccagtaagaaga	436239	-	-	-
22517	LOC12624	NM_173479.1	560	ttgccgcatcctatgataagaca	424956	-	-	-
22518	LOC12635	NM_173481.2	2048	acgggtgaccccgctcacaagaacg	424975	-	-	-
22519	LOC12673	NM_145257.1	678	ctgtgcaogagattcatgaatca	413934	-	-	-
22520	LOC12815	NM_138796.2	54	aggtctgtgacgttaggaatca	408853	-	-	-
22521	LOC12834	NM_181643.1	164	atggcttgctacacgacttatct	432633	-	-	-
22522	LOC12902	NM_080842.1	163	gagatggacaccccaacttaact	406861	-	-	-
22523	LOC12928	NM_152994.2	1424	tggactcttcggacacaaactaca	421726	-	-	see also 9970 line
22524	LOC12953	NM_138798.1	595	ctgttgaagtcaatactcttc	408901	-	-	-
22525	LOC12964	NM_138799.2	254	tggttcgacttatctacatc	408913	-	-	see also 9636 line
22526	LOC13002	NM_138488.3	1381	atgtggctgagcggtcacaac	408347	-	-	see also 9624 line
22527	LOC13058	NM_138801.1	523	atggcggagagctcatagtcaac	408986	-	-	-

679

図46 (続き)

22528	LOC13088	NM_174899.3	240	ttgtgtcaagaataattagactat	428545	-	-	-
22529	LOC13094	NM_138803.2	870	aagactaaccgcttagtgaact	409018	-	-	-
22530	LOC13095	NM_138804.2	1065	tagcaggctctgcgagtcattga	409070	-	-	-
22531	LOC13111	NM_145261.1	360	gagatgtcactgcagcgaattatg	413988	-	-	-
22532	LOC13136	NM_175036.1	279	gtggaggtgcaggctattacgatg	428910	-	-	-
22533	LOC13220	NM_138808.1	515	gagaatccgactatacaacttga	409125	-	-	see also 10141 line
22534	LOC13232	NM_173487.1	335	gtgaagcatgagcccgatttat	425001	-	-	-
22535	LOC13267	NM_145263.1	1761	tggaaattcgtgcgactctgaag	414019	-	-	-
22536	LOC13361	NM_130809.2	883	atggctccctatcataaatctgg	406993	-	-	-
22537	LOC13395	NM_145265.2	717	cagccggtctcaacgacatatt	414033	-	-	-
22538	LOC13421	NM_194283.1	266	cogtaagctggtagctttcattc	436295	-	-	-
22539	LOC13428	NM_173490.3	683	taggtgactgggtaataatttt	425132	-	-	receptor activity
22540	LOC13454	NM_175873.2	716	tggcccgaggcttgaagaatcg	429381	-	-	-
22541	LOC13626	NM_145268.2	421	aggccgagctctcagttcaatga	414082	-	-	-
22542	LOC14267	NM_080875.1	2061	aggtgccaaacatcgatttaco	406884	-	-	kinase related
22543	LOC14324					-	-	kinase related, signal transduction
22543	1	NM_138812.1	247	cagtgagatccgatagaatttta	409201	-	-	-
22544	LOC14410	NM_175038.2	1831	tggagctgcgctgctgtcagt	428968	-	-	-
22545	LOC14423	NM_181708.1	247	gtgtggctctctacaaacattc	432858	-	-	see also 10249 line
22546	LOC14450	NM_182507.1	494	cagatatactactctctctttatg	434015	-	-	-
22547	LOC14474	NM_194286.1	666	ctgctcgtcgtgaggatttctct	436361	-	-	-
22548	LOC14549	NM_194287.1	696	gggggtaccacaagctattgtctata	436365	-	-	-
22549	LOC14617	NM_173501.1	322	togtgcacagtgtaacaacatc	425173	-	-	-
22550	LOC14632	NM_145270.1	369	ctggggcaaacctccaaactaca	414072	-	-	-
22551	LOC14656	NM_139170.1	888	ttgggaagcctgtctttaaaccac	409414	-	-	-
22552	LOC14684	NM_145054.2	1430	caggccgactgctgtatgtcatt	413288	-	-	-
22553	LOC14685	NM_145272.2	754	gtgcagagagcccgacataacctag	414075	-	-	-
22554	LOC14711	NM_178493.3	1435	ctgcctctcccatgagatcatca	430834	-	-	-
22555	LOC14796	NM_174905.2	853	ggagccgacctgctgctctatgg	428574	-	-	-
22556	LOC14806	NM_181710.2	70	ctgcctcgcggagcacttaatgc	432870	-	-	-
22557	LOC14813	NM_144692.1	331	cctgtgtggccaaagtataataac	411339	-	-	-
22558	LOC14852	NM_144697.2	963	cagatgtgggggaacggttaacctagg	411454	-	-	-
22559	LOC14873	NM_145277.2	882	ctgcctacattggcacaactata	414097	-	-	-
22560	LOC14882	NM_145278.1	248	gtgtacactgtcactaataacaca	414106	-	-	-
22561	LOC14946	NM_182518.1	278	ttggcagatctgggtttgtcatig	434061	-	-	-
22562	LOC15015	NM_139173.1	304	ggaggagtattgaatgtaattatt	409421	-	-	-
22563	LOC15037	NM_138814.1	667	ctggggctcattatgtctatacc	409220	-	-	-
22564	LOC15075	NM_175853.2	172	cagaactactctgcaaacacttct	429279	-	-	-
22565	LOC15119	NM_145280.3	701	atgaacgggatacaacttotta	414126	-	-	see also 9786 line
22566	LOC15153	NM_138482.1	781	cggcgtctgcagccttctcatcc	408399	-	-	-
22567	LOC15163	NM_138287.2	1144	aggttgatagtgccactataaa	407415	-	-	-
22568	LOC15164	NM_138484.1	742	cagtgctctgccttaaacgttagg	408421	-	-	-
22569	LOC15183	NM_153635.1	330	cggagcggaccggaggtgattgata	423455	-	-	-
22570	LOC15196	NM_178496.2	810	ctgtgtgcaccatttagatcaca	430869	-	-	see also 10193 line

680

図46 (続き)

22571	LOC15218	NM_144718.2	405	ctgttaacgcgtcatgaataaca	411686	-	see also 9734 line		
	LOC15268			gagttaccagctctgtgcaact	434160	-	transcription_regulat	-	
22572	7	NM_182524.1	551	acgaactagcagtgacacaaaca	436383	-	or	-	
22573	LOC15368	NM_194290.1	551	aagcgtgtggcggctttgatcc	425318	-		-	
22574	LOC15480	NM_173517.1	417	tggcaaacacgtcttagtacaca	436396	-		-	
22575	LOC15737	NM_194291.1	1134	atgactctgacagctcttattaat	430301	-		-	
22576	LOC15765	NM_177965.2	202	gagccgcgtggagacagctataa	409600	-	see also 9683 line		
22577	LOC15842	NM_139246.3	1403	cagccgccttcatacaataaac	409260	-		-	
22578	LOC15909	NM_138819.1	627	gagacagcagcgaacaataata	439117	-		-	
22579	LOC16157	NM_198524.1	716	aagacccgacgcatgagacaatg	430477	-	see also 10179 line		
22580	LOC16242	NM_178126.2	411	aggtctaacggagggaataataac	434173	-		-	
22581	LOC16525	NM_182528.1	1425	ccgtcaacgacgatttcagaagt	432887	-		-	
22582	LOC16532	NM_181713.3	375	tgtctggaaacgctgagtgatgc	429763	-		-	
22583	LOC16885	NM_176814.3	2296	aaggcaatctgccccttcatttg	436496	-		-	
22584	LOC16935	NM_194294.1	605	gcccggacactggacattgact	433886	-	receptor_activity	-	
22585	LOC16961	NM_182487.1	1077	aagcaacgtcccccattctcatc	425742	-		-	
22586	LOC17039	NM_173541.1	247	gtgtatggcagagcttctgtcc	437419	-		-	
22587	LOC19626	NM_198275.1	644	gtgtatgctgtggactacaagg	425747	-		-	
22588	LOC19646	NM_173542.2	1159	tgtataggagcaagattgataga	428659	-		-	
22589	LOC19967	NM_174918.1	900	caggcaactcgtggatttattca	435666	-		-	
22590	LOC20003	NM_183372.1	3569	cagccgacgtgggggtattctgg	432976	-		-	
22591	LOC20018	NM_181715.1	664	cagctggcgggaagcaaaactaaa	428668	-		-	
22592	LOC20119	NM_174920.2	1458	tgggtgtggctgtgtgactcc	429169	-		-	
22593	LOC20124	NM_175734.2	618	cagcccaacccgtcactctatc	425836	-	see also 10082 line		
22594	LOC20129	NM_173547.2	1050	aagccaacccagctcctcataatgg	428678	-		-	
22595	LOC20189	NM_174921.1	405	gtgaggttctctgtgtgattg	434265	-	see also 10268 line		
22596	LOC20352	NM_182540.1	1265	gcgagacagatgggactattagt	428698	-		-	
22597	LOC20525	NM_174925.1	1067	gtggccgttttagtaccattga	435424	-		-	
22598	LOC22003	NM_182833.1	1401	gtgaaggagaggtgtgtgaag	414340	-		-	
22599	LOC22007	NM_145308.2	350	tggatcgaccctgtcctttaatga	414350	-		-	
22600	LOC22007	NM_145309.1	413	ttgtccaccaccacaaactgac	434948	-		-	
22601	LOC22092	NM_182755.1	1413	gtggccgacgtggcactatgacg	414359	-		-	
22602	LOC22104	NM_145314.1	427	ccgtttgacagatcaataaata	436565	-		-	
22603	LOC22171	NM_194299.1	488	tggccggagcggcagcatgtatga	426194	-		-	
22604	LOC22296	NM_173565.1	719	tgttaacccacacacagaaatg	436610	-		-	
22605	LOC22307	NM_194300.1	2255	aagccacgataacactataatga	415010	-	see also 9806 line		
22606	LOC23208	NM_147128.3	1595	gaggtgtagagagctaaacattc	437134	-	see also 10311 line		
22607	LOC25301	NM_198151.1	879	gaggtgtagagagctaaacattc	422080	-		-	
22608	LOC25355	NM_153184.1	1424	ctgaggggcttggaagctttat	433002	-		-	
22609	LOC25398	NM_181718.3	969	tggagcccttcttcgattcaacc	423395	-		-	
22610	LOC25453	NM_153613.1	652	gtggctgcctcttggcaataacc	433016	-	see also 10250 line		
22611	LOC25510	NM_181719.1	956	ctgtctaacaggatatctcaca	437464	-	see also 10315 line		
22612	LOC25574	NM_198278.1	544	gagggaaaccacacgaacaacag	437523	-		-	
22613	LOC25664	NM_198279.1	1528			-		-	

681

図46 (続き)

22614	LOC25710	NM_181720.1	904	aagtggaggttatcttcaatt	433027	-	-	-
22615	LOC28296	NM_182554.1	376	cagattggatcatgtatcaatt	434417	-	-	-
22616	LOC28324	NM_175893.2	409	ttgctgtgttctgcttattcc	429515	-	-	-
22617	LOC28338	NM_173855.2	154	cgccctcgagagccaggtatcacg	428508	-	-	-
22618	LOC28347	NM_175896.2	284	gtgtcaacaactccctattaaagg	429525	-	-	-
22619	LOC28348	NM_178514.2	742	atggagacggaccaggttgagg	430969	-	-	-
22620	LOC28353	NM_181785.1	1476	gtgtctgttctactgaacaagg	433363	-	-	-
22621	LOC28384	NM_178516.2	2210	tggctggcctcgagcaacaatt	430982	-	-	-
22622	LOC28393	NM_175901.2	323	acgagggagactaccgtaagatg	429534	-	-	-
22623	LOC28400	NM_198082.1	626	gaggtgagcgagctcaagataga	436997	-	-	-
22624	LOC28403	NM_175903.2	552	atgaagggtcgccaatcaactcg	429543	-	-	-
22625	LOC28429	NM_175908.3	338	aagatgctctgtctctatgatgt	429550	-	-	-
22626	LOC28434	NM_198850.1	287	aggctacgctccgatagctatg	439928	-	-	-
22627	LOC28436	NM_175083.2	1394	aggcctgatgatgtatcatcatt	428978	-	-	-
22628	LOC28461	NM_198280.1	307	gggcaggcogagctatttgggc	437534	-	-	-
22629	LOC28468	NM_182581.1	326	ggggcgggaactgcactatctacc	434509	-	-	-
22630	LOC28469	NM_183242.1	1345	atgttgattcagtccttagtaaa	435665	-	-	-
22631	LOC28483	NM_194310.1	709	caggacaatcctctcactttct	436690	-	-	-
22632	LOC28549	NM_194439.1	564	ctggagtgatgggaagtgatct	436891	-	-	-
22633	LOC28551	NM_198281.1	1662	aagctgcaggtactactaatctag	437552	-	-	-
22634	LOC28553	NM_173662.1	832	tgggtacttggcgatcatgttt	427165	-	-	-
22635	LOC28563	NM_175921.2	752	cagtgctgaaagggcatatagg	429575	-	-	-
22636	LOC28567	NM_178532.2	1063	cagtatttgtaccatactaat	431103	-	-	-
22637	LOC28590	NM_181722.1	698	atgccgaacaaccatagcttct	433032	-	-	-
22638	LOC28604	NM_173683.2	962	cagagcogtaacgggaacaacagg	427380	-	see also 10109 line	-
22639	LOC28614	NM_181787.1	666	ttgagtggttgcttattaaacagg	433395	-	-	-
22640	LOC33877	NM_181724.1	810	ctggagggtctctcttggtagc	433033	-	-	-
22641	LOC33945	NM_198317.1	925	atgtccacggctcatgaagtgt	437657	-	-	-
22642	LOC33976	NM_194312.1	3022	aagagctgagatgttcaacttt	436695	-	-	-
22643	LOC33983	NM_178173.2	1503	cagcgtccagggccataagattc	430594	-	-	-
22644	LOC34006	NM_198282.1	831	gtggccagcggctgtat.tttct	437578	-	-	-
22645	LOC34006	NM_182761.1	371	atgtctcttggctctctattca	435135	-	-	-
22646	LOC34101	NM_181807.1	486	aagattgtccacacatcaaca	433646	-	-	-
22647	LOC34156	NM_181788.1	508	caggccatctccactcaacaagg	433471	-	-	-
22648	LOC34490	NM_198184.1	71	aagctctcagtagtgtaaca	437181	-	-	-
22649	LOC34566	NM_197941.1	366	gtggttcatgggagattgggttg	436907	-	-	-
22650	LOC34667	NM_182489.1	481	ctgactggcaagcgagatcattac	433899	-	-	-
22651	LOC34809	NM_182703.2	24	ctggcttggccacttaccgaatcc	434901	-	signal_transduction	-
22652	LOC34864	NM_198851.1	946	gggctgtcaaatgcatttgattc	439935	-	-	-
22653	LOC34884	NM_182631.1	533	caggaaagagactgttccattat	434806	-	-	-
22654	LOC34923	NM_182635.1	705	ctgcagacattcgttctgttg	434822	-	-	-
22655	LOC35290	NM_178837.2	332	cagcaaccccgagctagatgtgc	432001	-	-	-
22656	LOC36020	NM_182973.1	1077	cagcttgtaaggccattactca	435517	-	-	-
22657	LOC37465	NM_198525.1	2236	tgggcgttacctatgggataaac	439133	-	-	-

図46 (続き)

682

22658	LOC37494	NM_198545.2	829	ttgttgactggaacgattatga	439327	-	-
22659	LOC37510	NM_198996.1	327	captaggtccatccattatgg	440469	-	-
22660	LOC37532	NM_198580.1	648	cggctacgtgtacaagatctgc	439516	-	-
22661	LOC37544	NM_198828.1	634	gaggaacttgaccacattatgc	439888	-	-
22662	LOC51035	NM_015853.3	272	atgtggacgagccttttagagact	355256	-	-
22663	LOC51054	NM_015899.1	1691	tggccatactggaagctttataa	355383	-	-
22664	LOC51057	NM_015910.2	551	gtggagcacctcgaagtgtaga	355411	-	-
22665	LOC51059	NM_015912.2	801	cgttcaaccttgcatattggatg	355459	-	-
22666	LOC51063	NM_015916.3	1069	atgagtcacagctcttggatgg	355474	-	-
22667	LOC51122	NM_016094.1	252	gagagctcaaaagctcatgtttc	356262	-	see also 6659 line
22668	LOC51136	NM_016125.2	554	gagcgtcaaaacttttatgcagc	356334	-	see also 6677 line
22669	LOC51159	NM_016206.1	640	aagctccaaagcattcttttga	356562	-	-
22670	LOC51161	NM_016210.2	932	aggccatgcagggcgaagactact	356573	-	-
22671	LOC51186	NM_016303.1	530	atcggttggaaaggttaactgaaa	356926	-	see also 6800 line
22672	LOC51198	NM_016349.1	125	ggagcgcgtgcctggaacaatcc	357205	-	-
22673	LOC51204	NM_016360.2	642	ctgctcatcgaggcattatctaa	357217	-	-
22674	LOC51212	NM_016380.1	779	gtggtagacggaacactatttgg	357250	-	-
22675	LOC51233	NM_016449.1	334	aggagcgaacctgttatgaatct	357563	-	-
22676	LOC51234	NM_016454.2	502	tggcatggctgtttacaagtgc	357573	-	see also 6865 line
22677	LOC51236	NM_016458.2	729	tgggaactgcggaattgtctgc	357576	-	-
22678	LOC51240	NM_016467.3	540	tgggttcgagcttttggaaatta	357613	-	-
22679	LOC51244	NM_016474.3	592	cggcgcctgtatgaaaaggattt	357645	-	see also 6870 line
22680	LOC51315	NM_016618.1	909	aggagagggcgtctaaagcataag	358452	-	-
22681	LOC51320	NM_016626.2	1373	aggagcgaccacactagtcacagg	358616	-	-
22682	LOC51333	NM_016643.1	706	cgcctaagctcgcacattcttctc	358677	-	-
22683	LOC51334	NM_016644.1	580	caggctaagtcacgccttntaa	358680	-	-
22684	LOC51668	NM_016126.1	379	atgatggctcgcgtacttacttg	356339	-	-
22685	LOC51693	NM_016209.1	449	atggtaoatgatgatgataca	356570	-	-
22686	LOC51759	NM_016482.2	490	gaggactgtctttatgaacttcc	357746	-	-
22687	LOC54499	NM_019026.1	434	ctgcctaattgggaattttcaat	374513	-	-
22688	LOC55565	NM_017530.1	770	gaggacacagatcataactgtgc	358976	-	-
22689	LOC55580	NM_017571.1	996	gcggttgccgcacacattcaaga	359183	-	-
22690	LOC55831	NM_018447.1	709	ttgggcttcggagcattactct	371571	-	see also 7484 line
22691	LOC55908	NM_018687.3	338	aagtgtgagctgttatatacttag	372544	-	-
22692	LOC55924	NM_019099.3	1005	gagcaactcacccctcaggattga	375229	-	-
22693	LOC56181	NM_019557.3	365	gggctgtctcgaagtgtagtaag	375307	-	see also 7713 line
22694	LOC56270	NM_019613.2	342	atgttattcggctgaactattt	375514	-	see also 7723 line
22695	LOC56901	NM_020142.3	357	gggacagcgcgtgcgttacttgc	375675	-	-
22696	LOC56965	NM_020213.1	938	tggattctcgttcagatcataga	376219	-	-
22697	LOC57146	NM_020422.3	585	tgttttgggtctcgtatcactcg	377402	-	-
22698	LOC57149	NM_020424.2	694	gggacttcgaagcccaagagaac	377414	-	-
22699	LOC57228	NM_020467.2	453	aagagaatatttcattcataatga	377733	-	-
22700	LOC57821	NM_021179.1	1020	aggagagccgcgtggcttattcg	380631	-	-
22701	LOC63920	NM_022090.2	2226	atgatccgtgtgtggctatttca	382279	-	-

683

図 46 (続き)

22702	LOC65122	NM_023014.1	1242	cagcaattgcaatgtctattgacg	384985	-	-
22703	LOC80298	NM_025198.2	658	ctgtagtccaacccgtgttaaca	394322	-	-
22704	LOC81558	NM_030802.2	1114	ggagaaagtgctgtgttgaaga	395208	-	-
22705	LOC85865	NM_033107.1	666	tagtgatcttcocgggttaata	403272	-	-
22706	LOC88523	NM_033111.2	1543	taggcataccatcagattagaca	403306	-	-
22707	LOC89894	NM_138341.1	815	cagtcaaggccacaaagtgtatct	407535	-	-
22708	LOC90050	NM_138344.2	1337	gtgcccacccatcttcaatgt	407553	-	-
22709	LOC90167	NM_194277.1	1373	ggggcggatccacattgtctaca	436206	-	-
22710	LOC90268	NM_138348.3	729	aggacagatcgccacttaacatc	407559	-	-
22711	LOC90313	NM_138349.2	871	cagggggctgtgtctgtcaagt	407562	-	-
22712	LOC90355	NM_033211.2	270	atggaaagtcgtatataatggaga	403578	-	see also 9380 line
22713	LOC90378	NM_138352.1	1432	ggacggggagacagcttccaaga	407566	-	-
22714	LOC90522	NM_033557.1	859	ctgcgtagcccatcttgggtta	404137	-	-
22715	LOC90529	NM_178122.2	813	gtgcatattcgtgtccaatacc	430482	-	-
22716	LOC90580	NM_138358.2	705	gggctcttcgatgagaagtaca	407604	-	-
22717	LOC90624	NM_181705.1	330	atgcaccaactcagaagaatga	432842	-	-
22718	LOC90736	NM_138362.1	268	ttgcatgaggagattgtctaaacc	407613	-	-
22719	LOC90768	NM_178838.2	839	ctgtactcggcgttaggaatc	432009	-	-
22720	LOC90799	NM_138363.1	821	ggacctatccgagcagctattcc	407637	-	-
22721	LOC90806	NM_144567.2	1118	ctgacgcaattggcaatgtact	409723	-	-
22722	LOC90850	NM_178167.2	327	tggaaaggtgacgaatgtaca	430550	-	-
22723	LOC91056	NM_138368.2	1236	cagagtgtaacctccaactttct	407754	-	-
22724	LOC91526	NM_153697.1	763	tgtttaacgagttgatgactac	423595	-	see also 10007 line
22725	LOC91689	NM_033318.3	85	ggcggcctcgtggtgctagtattg	403698	-	-
22726	LOC91752	NM_194250.1	3562	ggagtggctgctgtataatctcagg	436150	-	see also 10304 line
22727	LOC91937	NM_138379.1	411	ctggtcaacagatgtaaaagataa	407813	-	-
22728	LOC91947	NM_183376.1	621	cgggaactccaggtgtgttagtca	435728	-	-
22729	LOC91966	NM_178124.3	819	ttgcaatgccccggaagacttaac	430468	-	-
22730	LOC92170	NM_138384.1	278	atggacttggcggatcttacaga	407822	-	-
22731	LOC92345	NM_138386.1	1292	aggatatcgtacaagagaaattca	407857	-	-
22732	LOC92346	NM_139240.2	707	ttgccagagaaggaccacaatagg	409463	-	-
22733	LOC92689	NM_138389.1	1533	ggagtaacagcgcgtgtattga	407908	-	see also 9605 line
22734	LOC92691	NM_138390.2	1004	ttgaaatccgacaatatctcaagc	407933	-	-
22735	LOC92715	NM_138778.1	834	cagggtaccggcacaattctct	408747	-	-
22736	LOC92979	NM_138396.3	1184	cagtggaaaggtcctaaattatga	407948	-	-
22737	LOC93109	NM_138399.2	833	cggcactggacactcgtctattatt	407962	-	-
22738	LOC93343	NM_138401.1	305	ccgtctggagaccccatgagattcc	407965	-	-
22739	LOC93380	NM_173470.1	468	ctgttaacgttagttctatattg	424896	-	see also 10066 line
22740	LOC93426	NM_130784.1	419	caggagtgaagagagaatttc	406929	-	-
22741	LOH11CR2					-	-
22741	A	NM_014622.3	1264	cagacacggttagtgaattaaa	341401	-	-
22742	LOH12CR1	NM_058189.2	472	cagcaacgatcccgatgtcatca	406191	-	-
22743	LOH3CR2	NM_013343.1	711	tggtaacctcttagaaccttaag	338782	-	-
22744	LOST1	NM_172367.1	350	cgtgtcagtcctcgagttcttca	424476	-	-

図46 (続き)

684

22745	LPR2	NM_022737.1	873	caggtccgacgccttctgtoact	383787	-	-	-	-
22746	LR8	NM_014020.2	963	ggagtagtgcttcgaaactgt	339213	-	-	-	-
22747	LRIG1	NM_015541.1	1974	gagtttgtgtcgatgacttcc	353812	-	-	-	-
22748	LRP11	NM_032832.3	1791	aggaatcggactaactataaat	401815	-	-	molecular_function unknown	-
22749	LRP15	NM_052953.2	947	ttgtccacaaatcggaatcaag	405519	-	-	-	-
22750	LRP16	NM_014067.2	339	aggagcggaaatcctttctgaag	339513	-	-	-	-
22751	Lrp2bp	NM_181726.1	428	agagaagaagcctcactacacaagg	433036	-	-	-	-
22752	LRRG1	NM_025168.1	828	aagcttgacttagtgataatga	368510	-	-	receptor_activity	-
22753	LRRG16	NM_017640.2	553	ggcgctcatgctgctgactaaga	359884	-	-	see also 7063 line	-
22754	LRRG17	NM_005824.1	282	atgcgttggttaccattgttaat	334274	-	-	-	-
22755	LRRG19	NM_022901.1	966	atgcccaatatgttacaatttc	384748	-	-	-	-
22756	LRRG2	NM_024512.2	862	gtgtctcgcgagatgtogaattg	386548	-	-	-	-
22757	LRRG5	NM_018103.3	846	tggcccttcctgtgtattcttaag	366728	-	-	-	-
22758	LRRG8	NM_019594.1	319	acggcgtccctccaaagaagtact	375432	-	-	-	-
22759	LRRN1	NM_020873.3	665	aggtcgggctgtggcaaacctaac	379807	-	-	see also 8011 line	-
22760	LRRN3	NM_018334.3	815	gtgattgtccacaggttatgtac	370441	-	-	see also 7407 line	-
22761	LRRN4	NM_002319.2	1180	ggacagcggaccacccgaattaa	330868	-	-	-	-
22762	LSR7	NM_018559.2	562	aggacagtgtaactataatgttaa	372221	-	-	-	-
22763	LXN	NM_020169.2	612	atgacgctcgttctacatttagc	375742	-	-	-	-
22764	LY6GC	NM_025261.1	294	ccgtgaagctgggtctgacatata	394626	-	-	-	-
22765	LY6GD	NM_021246.1	582	ggaccgaagcacaagaatctcc	380898	-	-	-	-
22766	LYAR	NM_017816.1	1008	aggcaactgggaagtgaacaga	362704	-	-	-	-
22767	LYRIC	NM_178812.2	1014	cagttaccaccgagacaactaca	431346	-	-	see also 10201 line	-
22768	LYIC	NM_032368.3	212	tggatagactatgcacacaatta	400005	-	-	-	-
22769	LZK1	NM_024835.1	2075	ctgccggttaaatgatcacaaga	391345	-	-	see also 8772 line	-
22770	LZTFL1	NM_020347.1	927	cagcagcttatcggaaacatgaaa	376796	-	-	-	-
22771	LZTR1	NM_006767.1	1789	ctgcctgaacttctgtgttaagg	336313	-	-	see also 4772 line	-
22772	M-RIP	NM_015134.1	2997	acgggtctcgggatgtatataat	348565	-	-	-	-
22773	M1S2	NM_005899.2	1494	cgggtctgtgtcagttatcatagt	334467	-	-	see also 4109 line	-
22774	MAB21L1	NM_005584.2	926	tggctcaagcgggttagacaaatgt	334096	-	-	-	-
22775	MAD2L1B	NM_014628.1	771	ttggagaagactacatttggttcc	341437	-	-	-	-
22776	MAF1	NM_032272.2	513	ggagcagcaaaacacatgttcaag	399301	-	-	see also 9132 line	-
22777	MAGEA10	NM_021048.3	989	tggcattctactattctctaa	380494	-	-	-	-
22778	MAGEA8	NM_005364.3	925	ggagcagcagtgcttatggaaag	333664	-	-	molecular_function unknown	-
22779	MAGEB1	NM_002363.3	1013	tggagaggagcactaatctatg	330879	-	-	-	-
22780	MAGEB2	NM_002364.3	590	tggccttgagctgaataaagtc	330883	-	-	-	-
22781	MAGEB3	NM_002365.2	545	gtggtattgtgtgtatttaaa	330893	-	-	-	-
22782	MAGEB4	NM_002367.2	754	ctgaatatctgtggggatattga	330902	-	-	-	-
22783	MAGEB6	NM_173523.2	746	gtgacagttggcgcaattctctgc	425438	-	-	-	-
22784	MAGEC1	NM_005462.2	3651	atgattgactgccacagaagaatg	333855	-	-	-	-
22785	MAGEC3	NM_138702.1	1526	ttggcattgcccctgactgatg	408621	-	-	-	-
22786	MAGED1	NM_006986.2	779	ggagccggacccaggtatctctga	336682	-	-	-	-

図46 (続き)

685

22787	MAGED2	NM_014599.4	1579	aaggctaggccgagattagagc	340987	-	see also 5768 line	-
22788	MAGED4	NM_030801.2	192	cagcgtgcaatcggaagotaca	395186	-	-	-
22789	MAGEE1	NM_016249.2	566	ctggtgcataccacaaatttacc	356618	-	-	-
22790	MAGEF1	NM_022149.3	803	gggtatccggaaggctttatt	382542	-	-	-
22791	MAGEH1	NM_014061.3	732	cagtcggtagagtagtgattct	339498	-	-	-
22792	MAIL	NM_031419.1	1815	gagtttggtgtatcacattaaagt	396887	-	-	-
22793	MAMDC1	NM_182830.2	1675	aggatcgaagtgcactatgagt	435334	-	-	-
22794	MAML1	NM_014757.2	570	cgggcacgcacatcttcattatgac	343125	-	-	-
22795	MAML3	NM_018717.2	1311	cggactagcaaacgaattcgaaa	372845	-	transcription_regulat	-
22796	MAN1A1	NM_005907.2	1793	aagttatgacgaggaactaactta	334519	-	see also 4122 line	-
22797	MANEA	NM_024641.1	857	cagacacgcccagcctaatttc	388455	-	-	-
22798	MAP1LC3	NM_032514.2	465	acgaggacggcttctctctatg	400512	-	-	-
22799	MAP4K4	NM_004834.2	2550	gtgacaccccgagagattcgtaaa	333075	-	see also 3349 line	-
22800	MBD3L1	NM_145208.1	132	aggccagtaacgagaattacacc	413769	-	transcription_regulat	-
22801	MBD6	NM_052897.1	2844	agggggaacttaggggcattaatg	404763	-	-	-
22802	MBTD1	NM_017643.1	615	aagattaaagactagtatgaag	359951	-	see also 7066 line	-
22803	MCC2	NM_031941.2	1411	aggagcgcgcttctctaatgaag	397428	-	-	-
22804	MCLC	NM_015127.2	1139	gtgatccgattccattatagg	348523	-	see also 6257 line	-
22805	MGM10	NM_018518.3	2620	gggaaacgggacgggaatgctaaag	372106	-	-	-
22806	MCM3APA	NM_018118.1	709	aagtaaacagtaaccatacacagg	366856	-	-	-
22807	MDS006	NM_020233.3	90	tggcgtcatcgacagatgttcaat	376343	-	-	-
22808	MDS009	NM_020234.3	990	tggtagtaaccatactatgata	376395	-	-	-
22809	MDS010	NM_020231.3	200	gagaattacgaaccatgttcaag	376308	-	see also 7808 line	-
22810	MDS025	NM_021825.3	616	cagcgttaactgtctttatcaaat	381107	-	see also 8178 line	-
22811	MDS027	NM_018402.3	155	aagacttgcacacactaaacgaga	371874	-	see also 7487 line	-
22812	MDS029	NM_018464.1	148	tggatcgagcaggtaccattgc	371881	-	-	-
22813	MDS031	NM_018466.2	130	tggttacaacccgacttactctgc	371897	-	-	-
22814	MDS032	NM_018467.1	188	cggcccttgagggtgatcaatga	371917	-	-	-
22815	MDS2	NM_148895.1	677	atggtgtctgttaattgtaato	415164	-	-	-
22816	MECT1	NM_015321.1	665	ctgtgaggtcccccgaataaaca	351499	-	-	-
22817	MEP50	NM_024102.2	306	tgggagagagaggtattcttgtgg	386031	-	-	-
22818	MESDC1	NM_022566.1	1691	aggactttacccgcagtgaaatc	383579	-	molecular_function	unknown
22819	MFN2	NM_014874.1	1560	aagactataagctcggaattag	345081	-	see also 6074 line	-
22820	MGC10084	NM_153702.1	186	cagcgaattattgataccctatgt	423679	-	see also 10010 line	-
22821	MGC10120	NM_173809.1	94	cggccaccagtgaaagactataag	428196	-	-	-
22822	MGC10198	NM_152682.1	477	tgggaacgcgtatgacctataca	419736	-	-	-
22823	MGC10200	NM_145080.1	913	ggaggactactctgtattgtata	413360	-	-	-
22824	MGC10233	NM_152715.1	1254	aagcaacatgctctctactatt	420039	-	-	-
22825	MGC10540	NM_032353.2	252	tggagtcgatccagattgtatta	399918	-	-	-
22826	MGC10744	NM_032354.2	445	ggagtgactacgtattggtac	399927	-	-	-

図 46 (続き)

686

22827	MGC10765	NM_024345.1	439	cagcccgatgacgaatgattt	386352	-	see also 8613 line
22828	MGC10870	NM_032301.1	1306	ttgacccggaaggcatgacaatg	399557	-	-
22829	MGC10811	NM_032302.1	238	aagacacgctgttgatgatatcg	399560	-	-
22830	MGC10955	NM_032676.2	265	ccgtgctggagcccaatacaca	401212	-	-
22831	MGC10992	NM_033212.2	515	ctgccaattggcggagaaatgg	403594	-	-
22832	MGC10993	NM_030577.1	960	cagacactgttcggaatcaaac	394697	-	-
22833	MGC11061	NM_032312.2	608	atggattataaccattggatat	399661	-	see also 9153 line
22834	MGC11082	NM_032691.1	843	cagctcagaacaacattgttc	401228	-	-
22835	MGC11115	NM_032310.2	420	ccgcacgctctgcgaagtcc	399645	-	-
22836	MGC11242	NM_024320.2	251	ggagccccaacacgacttaac	386252	-	-
22837	MGC11266	NM_024322.1	564	cagaaaccactccggatacatca	386271	-	-
22838	MGC1203	NM_024296.2	627	tggagaacctcagtaattctatg	386205	-	-
22839	MGC12197	NM_016625.2	113	tggagcgtcggtcatcagatact	358562	-	see also 6961 line
22840	MGC12909	NM_145085.1	473	aggcggctccggtctgaaagtga	413317	-	see also 9769 line
22841	MGC12935	NM_032694.1	170	gggtgacggggtctctgtct	401232	-	-
22842	MGC12965	NM_198519.1	1232	cagtgacacacatgccacttaag	438955	-	-
22843	MGC12966	NM_032706.1	386	aggtcatattgagatccattga	401246	-	-
22844	MGC12972	NM_032683.1	220	cggcgctccgcgagcatgtttgc	401214	-	-
22845	MGC12981	NM_032357.2	299	ggggaacgaacgggttggaacg	399931	-	-
22846	MGC12992	NM_032342.1	443	ctggctgtcaccgactcttaca	399824	-	-
22847	MGC13010	NM_032687.2	701	ctgtttccggcgaacacttat	401221	-	-
22848	MGC13016	NM_032343.1	535	atgctgagatgataaacgtctct	399846	-	-
22849	MGC13024	NM_152288.1	697	ctggttggttgatcaagtgtgt	415376	-	-
22850	MGC13034	NM_153217.1	681	caggcccaatcctgtgtgacc	422222	-	-
22851	MGC13040	NM_032930.1	838	ctggtaggtgtgaaagaatcc	402540	-	-
22852	MGC13045	NM_032344.1	807	ccgagccagtcggagttctatg	399849	-	-
22853	MGC13053	NM_032710.1	471	cagaacaagattccgtgttaca	401247	-	-
22854	MGC13057	NM_032321.1	566	atggcatgcaataacataaagt	399711	-	-
22855	MGC13102	NM_032323.1	772	tgggagccgcactattcttctc	399729	-	-
22856	MGC13125	NM_032725.2	670	agagaagtcctcgtcatgattcacc	401267	-	-
22857	MGC13159	NM_032927.2	860	cagccttgataccattaccact	402521	-	-
22858	MGC13183	NM_032358.2	1452	tagacgggacacataagatacaag	399964	-	-
22859	MGC13204	NM_031465.1	572	ggacttaacctatgtgttcattc	397092	-	-
22860	MGC13251	NM_032714.1	568	tggctgcctgtgcatctactct	401248	-	-
22861	MGC14126	NM_032898.2	458	ggcattatccagttcgaact	402461	-	-
22862	MGC14141	NM_032928.2	164	atgttcattcagaggaagtcc	402525	-	-
22863	MGC14156	NM_032906.2	316	gggaatacttatccaatcattg	402499	-	see also 9344 line
22864	MGC14161	NM_032892.1	1471	gggagccaccggaaatacacaga	402449	-	see also 9338 line
22865	MGC14288	NM_032901.2	285	gtgtccgagtctaccactatttc	402492	-	-
22866	MGC14289	NM_080680.2	637	gggtcccatcagttatccatgc	406577	-	-
22867	MGC14407	NM_032908.1	434	atgcacacgatgttatgagaaca	402502	-	-
22868	MGC14595	NM_032334.1	788	aagaattcggacaacatctaacc	399786	-	-
22869	MGC14697	NM_032747.1	371	aagcattgattgtgtcttat	401318	-	-
22870	MGC14799	NM_032336.1	471	gtgtcgcctcatgaagatagaga	399792	-	see also 9166 line

687

図46 (続き)

22871	MGC14801	NM_032705.2	231	cagcaccgatcccgacatagatc	401240	-	-	-
22872	MGC14816	NM_144620.1	330	aagaacgagtaagcttaaccaag	410378	-	-	-
22873	MGC14817	NM_032338.2	326	tggacagtaaccataatggtatga	399809	-	-	-
22874	MGC15396	NM_052855.2	1181	aagttaccataactctgttaag	404451	-	-	-
22875	MGC15397	NM_080652.2	625	tcggttgatccataataattc	406523	-	-	-
22876	MGC15407	NM_080667.2	878	aaggaccaatagcaaacattatca	406610	-	-	-
22877	MGC15419	NM_024735.2	565	acgtogatgcccctatgagattc	389746	-	-	-
22878	MGC15606	NM_145037.1	2083	cagcgactggtacaacttcagc	413103	-	-	-
22879	MGC15668	NM_032756.1	1021	ggggctgtatacgccttaacattg	401326	-	-	-
22880	MGC15677	NM_032878.2	72	gtgcaaggagttggttgatgg	402390	-	-	-
22881	MGC15716	NM_032370.1	350	ctggcctgaccagcatagctcc	400015	-	-	-
22882	MGC15730	NM_032880.2	1185	acggctgtgagccgtgagttcc	402410	-	see also 9331 line	-
22883	MGC15827	NM_032882.2	416	gcgtttcgagaggagataatgc	402414	-	-	-
22884	MGC15882	NM_032884.1	959	cagccgagacttcgaacaaagt	402421	-	-	-
22885	MGC15912	NM_032886.1	414	tgggagagtgactcgttagtca	402441	-	-	-
22886	MGC15937	NM_080661.2	182	gtggctgagataatagagtttc	406583	-	-	-
22887	MGC16028	NM_052873.1	246	ctggaatgaacgcacgtatca	404566	-	-	-
22888	MGC16044	NM_138371.1	1573	aggtttctcgtcgaagacaatt	407777	-	-	-
22889	MGC16075	NM_032761.2	468	tgggcaacctgaggacatagc	401337	-	-	-
22890	MGC16121	NM_032762.2	443	gcgttgctctccggaaatccaagc	401338	-	-	-
22891	MGC16202	NM_032373.2	294	ctgtaagggtatctgatcaagc	400022	-	see also 9175 line	-
22892	MGC16309	NM_033413.2	414	gggaggggattactactatcagg	403819	-	-	-
22893	MGC16353	NM_138774.2	175	caggcgggaaacagcacttcacga	408729	-	-	-
22894	MGC16372	NM_145038.1	908	ctgggatttgagagaatacaaca	413122	-	-	-
22895	MGC16491	NM_052943.2	785	tcggtgagacgccagtttgaatt	405461	-	-	-
22896	MGC16733	NM_033547.2	576	atgttcagctccatgaagagg	404130	-	-	-
22897	MGC16824	NM_020314.3	1492	gggtgaccgacttcagattctca	376457	-	-	-
22898	MGC17330	NM_052880.2	766	agggagatgagcgcgaatcaotct	404589	-	-	-
22899	MGC17839	NM_174926.1	428	tggctcgtctatattcttt	428701	-	-	-
22900	MGC17943	NM_152261.1	323	gtgtgactgggggtatctcagt	415205	-	-	-
22901	MGC18079	NM_144675.1	479	cgggagagggccgaccttcacaga	411269	-	-	-
22902	MGC18216	NM_152452.1	2342	atgattgattacagcatcacacagt	416940	-	-	-
22903	MGC19595	NM_033415.2	846	gcgtcacgcttgctcgaacatg	403822	-	-	-
22904	MGC19780	NM_144988.1	308	tagagacctagttaacatgtata	412450	-	-	-
22905	MGC20255	NM_052848.1	1086	ggggggggagaggtactttgatga	404409	-	-	-
22906	MGC20262	NM_152421.2	492	gggagctgtgactctgttgacaag	416541	-	-	-
22907	MGC20398	NM_052857.1	595	ctgcaaacgattcttttagtac	404461	-	see also 9437 line	-
22908	MGC20460	NM_053043.1	3301	gggctccggcataatacaattc	405829	-	-	-
22909	MGC20470	NM_145053.2	1451	ctgcaacccggagtcatataat	413246	-	-	-
22910	MGC20481	NM_052849.2	695	ggagtggtctcagccagataaag	404416	-	see also 9435 line	-
22911	MGC20486	NM_052844.2	618	gggactggagcagcgttaagtcc	404405	-	-	-
22912	MGC20579	NM_182614.2	281	tgggtggcagcatcgtgtttatc	434687	-	-	-
22913	MGC20700	NM_174983.2	969	aggtgggcatactgatacatgacc	428890	-	-	-
22914	MGC20781	NM_052935.2	325	ggagacgggttacagggtttct	405394	-	-	-

889

[illegible]

689

図46 (続き)

22959	MGC26733	NM_144992.2	1219	tggcttggtcgcaagaactoa	412484	-	-	-
22960	MGC26744	NM_144645.1	335	cgggcagttgtataatgtaca	410711	-	-	-
22961	MGC26778	NM_145010.2	799	cagtcctctcgctctttataga	412610	-	-	-
22962	MGC26816	NM_152613.1	134	cagcatcagaaggtctaaatgt	418829	-	-	-
22963	MGC26818	NM_152371.1	471	ttggcatccaggggaattgtct	415908	-	-	-
22964	MGC26847	NM_145006.2	505	acgggtcagggccgcatatccttag	412585	-	-	-
22965	MGC26885	NM_152339.2	856	ggagcagagtgccaaactgttg	415718	-	-	-
22966	MGC26963	NM_152621.3	1435	tagcacagaaactacactatc	419027	-	kinase_related	-
22967	MGC26988	NM_130899.1	1228	gcggcggttgagggcagctattac	407122	-	-	-
22968	MGC26989	NM_152763.2	338	aagataggaatgattacagttt	420830	-	-	-
22969	MGC26999	NM_152630.2	430	atggttcctgtagcaagttacata	419177	-	-	-
22970	MGC27034	NM_152292.2	1209	aaggttgatcgggacagtgattcc	415431	-	-	-
22971	MGC27044	NM_144971.1	835	tcgtgattatctcggcaaat	412185	-	see also 9761 line	-
22972	MGC2705	NM_032701.2	285	tcggttcccgaccataagatg	401233	-	-	-
22973	MGC27085	NM_153353.2	888	atgcaggcgcaactatctcgaat	422967	-	-	-
22974	MGC2714	NM_032299.2	650	ttggcctcacagttgaatgat	399521	-	see also 9150 line	-
22975	MGC27169	NM_176782.1	171	gggtgtttgccggcattacctgt	429592	-	-	-
22976	MGC2731	NM_024088.2	212	agggcagagtgccaaagacaagg	385732	-	-	-
22977	MGC27434	NM_145050.1	471	aggttcactggaatgattagaca	413201	-	-	-
22978	MGC2747	NM_024104.2	142	ccgacaacctcccaagaagtc	386042	-	-	-
22979	MGC2749	NM_024069.2	343	ggagcccttagtagagataaac	385741	-	-	-
22980	MGC2803	NM_024038.2	467	aagacggaggatgaggattaac	385580	-	see also 8567 line	-
22981	MGC2865	NM_032375.2	1033	cagctgggcattagtataatgg	400080	-	-	-
22982	MGC29649	NM_173810.3	502	ctgcctctcgttaactaat	428205	-	-	-
22983	MGC29761	NM_144654.1	396	gtggaattgtccggacaatact	410872	-	-	-
22984	MGC29762	NM_144706.2	602	tggaaacagcagctcagttattt	411513	-	-	-
22985	MGC29784	NM_173659.1	301	caggagagctgacgtgttctca	427134	-	-	-
22986	MGC29814	NM_182565.2	445	ctgctcccaactcgaacttca	434470	-	-	-
22987	MGC29875	NM_014388.2	1355	cagaaagcatccgactctatgc	340501	-	see also 5646 line	-
22988	MGC29891	NM_144618.1	521	agggatgcccgaactaagtaga	410346	-	see also 9716 line	-
22989	MGC29898	NM_145048.2	669	aggattgaatgctctagttaagc	413186	-	-	-
22990	MGC29937	NM_144597.1	301	ctgagctctgctgattcttcc	410167	-	-	-
22991	MGC29956	NM_144638.1	216	atgctcttaggcattatttga	410616	-	-	-
22992	MGC3035	NM_024293.2	780	tggcccttggtgtttattatga	386151	-	-	-
22993	MGC3047	NM_032348.2	1313	aagatcatcgacctagacaagg	399866	-	see also 9169 line	-
22994	MGC3048	NM_024052.3	540	aggagttcaaccccttaacacc	385639	-	see also 8579 line	-
22995	MGC3087	NM_024295.3	214	cggcatcacggctatttggctc	386174	-	see also 8605 line	-
22996	MGC3103	NM_024036.3	1318	ggggccacagcccgagtagaact	385548	-	-	-
22997	MGC3121	NM_024031.2	1653	tcgaccaatcaggttgacaaga	385503	-	-	-
22998	MGC3130	NM_024032.2	638	ggggcctgaacaagcgaatttg	385510	-	-	-
22999	MGC3162	NM_024078.1	971	cgggtgttctctctgttcaca	385758	-	-	-
23000	MGC3169	NM_024074.1	312	gggagccactgatgatattctc	385747	-	-	-
23001	MGC31963	NM_144580.1	1039	tggctattgggacaactaac	409937	-	-	-
23002	MGC31967	NM_174923.1	552	tagcaagccggacaaggatagg	428694	-	-	-

図46 (続き)

690

23003	MGC3200	NM_032305.1	393	atgtcaggctccgattgacaaatgc	399608	-	see also 9151 line
23004	MGC32020	NM_152266.1	313	gaggcttgctcgggttagaaatt	415212	-	-
23005	MGC32124	NM_144611.2	774	gtgaccgggagctggttgaagc	410295	-	-
23006	MGC3222	NM_024334.1	1032	gaggtgttcacatagaaactaag	386312	-	see also 8612 line
23007	MGC3232	NM_023313.2	1694	gtgctataggccgcacatagatttc	399685	-	-
23008	MGC3248	NM_032486.2	147	aagccagaaacatcgttctcaatg	400373	-	see also 9218 line
23009	MGC3262	NM_024029.3	945	tggccatggcctgaagtgtac	385491	-	-
23010	MGC3265	NM_024028.2	624	acgcagcgtttattgatgatgt	385482	-	-
23011	MGC32871	NM_152311.1	716	ctgctcgtcattcttctaataat	415510	-	-
23012	MGC33190	NM_152749.2	195	ctgctccgacaatgtagatttag	420516	-	see also 9946 line
23013	MGC33212	NM_152773.2	190	gggagcccgagaaacacattat	420976	-	-
23014	MGC33214	NM_153354.2	863	tggattacgactggctcaaatgc	422999	-	see also 9990 line
23015	MGC3329	NM_024086.2	923	agggattcccaaaagtaacgtaca	385830	-	see also 8587 line
23016	MGC33329	NM_152782.2	1091	tgggagaccocgaagatatacttg	421149	-	-
23017	MGC33338	NM_152366.2	355	taggccagcgcctacagattgg	415827	-	-
23018	MGC33365	NM_173552.2	1044	ttagacctcgttggcaattaatg	425971	-	-
23019	MGC33367	NM_144602.2	594	tggcttacgaacgaagctaaag	410239	-	-
23020	MGC33370	NM_173807.2	584	ctggcgtattgtatgaacatga	428091	-	-
23021	MGC33371	NM_144664.2	696	ctggcctgtactttatcgtaca	411141	-	-
23022	MGC33382	NM_173529.3	479	gagcctaacaactgatgatctat	425532	-	-
23023	MGC33424	NM_153705.2	1205	aagccaggactggccatattatga	423752	-	-
23024	MGC33530	NM_182546.1	966	cagaaaggctcagctgtatagagt	434322	-	-
23025	MGC33547	NM_144661.2	204	aagaacagctcgggaatgtgc	411112	-	-
23026	MGC33600	NM_182539.1	695	cagggtccacgtcgcacgtctoc	434239	-	-
23027	MGC33602	NM_152391.2	480	tggccatgaatctatgtacttto	416200	-	-
23028	MGC33607	NM_152775.1	97	cagctccaaagatcctaattct	420998	-	-
23029	MGC33630	NM_144668.2	1044	agggccacgccaatattatctoc	411165	-	-
23030	MGC33648	NM_153706.2	813	aaggcgcagctgtatctatgtat	423763	-	-
23031	MGC33653	NM_153346.2	2196	ctgtcggctagatcacctttaa	422916	-	-
23032	MGC33835	NM_182548.2	411	aagatctaccataccaaactatgt	434332	-	-
23033	MGC33887	NM_145036.1	1013	cagcgtatgaacaacacagatagt	413044	-	see also 9767 line
23034	MGC33889	NM_173699.1	1047	tgttagccaagatcacatgatacc	427731	-	-
23035	MGC33894	NM_152914.1	419	ctgctgtgacatccagaagtagc	421690	-	-
23036	MGC33926	NM_152390.1	847	ctgcacgttatccgtttatta	416190	-	-
23037	MGC33947	NM_152358.1	582	tcgtgtctcgtggtgtgacatac	415797	-	-
23038	MGC33951	NM_152448.1	495	atgtacttcctctacagaatta	416871	-	-
23039	MGC33993	NM_152737.1	657	tagtagctgcgccgatgacaaca	420284	-	see also 9937 line
23040	MGC34032	NM_152697.2	1632	tggacagccatcacatgatcaca	419865	-	-
23041	MGC34034	NM_153224.2	645	aagcactcacgaatctttgttc	422321	-	-
23042	MGC34132	NM_173654.1	495	agcgaaacctgtgtataactatg	427088	-	see also 10104 line
23043	MGC34290	NM_152315.1	978	ttagcaaccaggttcagttagaca	415531	-	-
23044	MGC34647	NM_152456.1	524	caggagccgacttaagtacatga	416959	-	-
23045	MGC34680	NM_152346.1	607	gcgaccttcggtccacgtttatt	415751	-	-
23046	MGC34713	NM_173665.1	727	ctgcactctgacgcttcttagt	427196	-	-

691

図4.6 (続き)

23047	MGC34741	NM_153356.1	366	aaggccttatccaaatgtatga	423036	-	-	-
23048	MGC34799	NM_182575.1	631	ctgtcgtgctggcgctaaagtcc	434489	-	-	-
23049	MGC34805	NM_173525.1	408	ctgcaagatccgctacatatagg	425471	-	-	-
23050	MGC34824	NM_173652.1	749	tgaagttcaagagactaaactag	427076	-	-	-
23051	MGC34830	NM_152314.1	367	aaggcccggttagcacatgtct	415516	-	-	-
23052	MGC34831	NM_152632.1	2112	gagcgaatogattttaaccacc	419319	-	-	-
23053	MGC34919	NM_182582.1	1364	gtgtattacacacacatatata	434514	-	-	-
23054	MGC35010	NM_178505.2	632	ggggacagcggctgacatactgg	430938	-	-	-
23055	MGC35043	NM_152770.1	377	ctgagttcogtggctttttattgg	420901	-	-	-
23056	MGC35048	NM_153208.1	1043	aagataaatcggaacaatcaac	422146	-	-	-
23057	MGC35062	NM_198515.1	328	aagtaaggtcggaaataaccaga	438916	-	-	-
23058	MGC35097	NM_173546.1	699	ctgcagggaaacaagatctatgt	425824	-	-	-
23059	MGC35118	NM_152453.2	585	aagatcaagcctctacataaag	416951	-	-	-
23060	MGC35138	NM_173573.1	1806	ctgtggctccagaaagacacc	426292	-	-	signal transduction
23061	MGC35154	NM_152614.1	197	tagatcaggcctcctcaagacg	418847	-	-	-
23062	MGC35169	NM_152324.1	503	gtgtggggccctcgatgaagagt	415591	-	-	-
23063	MGC35179	NM_153230.1	1075	ggagccactctgatatgtctcc	422409	-	-	-
23064	MGC35182	NM_153707.1	579	ttgtcagcagctataagaaga	423793	-	-	-
23065	MGC35194	NM_152290.1	501	cagcaactatgacgccattaca	415383	-	-	-
23066	MGC35206	NM_178552.2	812	tggcaggaagcggatgtctgg	431195	-	-	-
23067	MGC35212	NM_152764.1	928	tgggcgtgcacgttcgttctca	420871	-	-	-
23068	MGC35261	NM_173494.1	470	aggttgtgcagtgaaactagtg	425148	-	-	-
23069	MGC35295	NM_152717.1	315	tggcgtgttactatcttctact	420071	-	-	receptor activity, signal transduction
23070	MGC35392	NM_153336.1	590	cgtgttgtcgtgtatgtacag	422770	-	-	-
23071	MGC35468	NM_153244.1	347	atgcctatgggcaaatgcagg	422575	-	-	-
23072	MGC35521	NM_145065.1	501	cggagccactcggctcattagg	413477	-	-	-
23073	MGC35555	NM_178505.3	395	cagtaagcagagctagtattgtat	431297	-	-	-
23074	MGC35558	NM_145013.1	394	aggatgtgcatgccatagtaacc	412617	-	-	-
23075	MGC3731	NM_024313.1	218	aggagcgcaccaggaactcttg	386226	-	-	-
23076	MGC3794	NM_152902.2	214	tgggaataattagccgatgaatta	421535	-	-	see also 9960 line
23077	MGC39325	NM_147189.1	1350	cagttctcaggacagtaacagtga	415086	-	-	-
23078	MGC39338	NM_152480.1	361	acgcctaccocaaagatttacgagg	417025	-	-	-
23079	MGC39350	NM_144970.1	451	tgttgtcagaagaagtcaca	412037	-	-	see also 9751 line
23080	MGC39520	NM_153364.1	431	ctgtgtatgtaccctattaca	423057	-	-	-
23081	MGC39571	NM_152728.1	438	tgtttgagtgaggttctacatg	420135	-	-	-
23082	MGC39581	NM_152784.2	359	tgttgtttattgtgttagtag	421156	-	-	-
23083	MGC39633	NM_152549.1	1408	aagaacgccagccgcagtttaag	417965	-	-	-
23084	MGC39655	NM_182541.1	544	aagatcggactgccccatcact	434283	-	-	-
23085	MGC39662	NM_152394.2	933	aggcatgcctcctgtttgattg	416221	-	-	-
23086	MGC39681	NM_174939.2	182	atgtatgccatattggaattt	428759	-	-	-
23087	MGC39696	NM_152771.1	717	gtggcacatctgcataaatcc	420915	-	-	-
23088	MGC39724	NM_174906.1	386	gagggtgcctccaccattataga	428576	-	-	-
23089	MGC39725	NM_152397.1	639	ttgcattgtgacagagtgatttc	416260	-	-	-

692

図46 (続き)

23090	MGC39827	NM_178499.2	652	gtgaagatagagccctgatatatt	430897	-	-	-	-
23091	MGC39830	NM_152756.1	63	ggatcagggggcgggaatgacagc	420659	-	-	-	-
23092	MGC40053	NM_152583.1	445	gggtgcctctaccatccttgt	418257	-	-	-	-
23093	MGC40069	NM_182615.1	401	ttgctcacgctaatatgatta	434701	-	-	-	-
23094	MGC40157	NM_152350.1	410	gggtagccacgggttgcaatt	415765	-	-	-	-
23095	MGC40178	NM_152325.1	237	gtgatgatacacttgaaatca	415600	-	-	-	-
23096	MGC40179	NM_173472.1	455	cagagtgcgcacgatgaacaac	424909	-	-	-	-
23097	MGC40195	NM_152441.1	1090	gggtgcgcacggctcaacattgg	416840	-	-	-	-
23098	MGC40214	NM_152416.1	208	ctgggaacacggattatgaagg	416484	-	-	-	-
23099	MGC40222	NM_152738.1	498	aagacacatggacccttatgta	420304	-	-	-	-
23100	MGC40368	NM_152772.1	741	gtgtctccgtgcggagataatg	420935	-	-	-	-
23101	MGC40397	NM_152318.1	139	gggacaggttgctcaactcc	415572	-	-	-	-
23102	MGC40499	NM_152755.1	386	ggagcagatcctggactatgt	420653	-	-	-	-
23103	MGC4093	NM_030578.2	527	ggcagttggcgagaaacagttgg	394700	-	-	-	-
23104	MGC4126	NM_032773.2	432	ttgccgggtacacttgtaatt	401366	-	-	-	-
23105	MGC41816	NM_016486.4	156	ggcccgagtggaagcatttaac	357593	-	-	-	-
23106	MGC4189	NM_032308.1	118	cagcgggacagggctctaaaca	399634	-	-	-	-
23107	MGC41906	NM_152474.2	715	aagaaatggctcacataatggaaa	417015	-	-	-	-
23108	MGC42090	NM_152774.1	260	ttgtcgtactagccagtatgaac	420993	-	-	-	-
23109	MGC42157	NM_153241.1	333	atgtgtacagaaactactctca	422570	-	-	-	-
23110	MGC4238	NM_032832.2	103	gtgcggcgtacgatttaatt	399766	-	-	-	-
23111	MGC4248	NM_032833.2	716	ggacaaagtaaaactactttct	399777	-	-	-	-
23112	MGC42493	NM_178549.2	496	gtgacactgacacagacataaag	431167	-	-	-	-
23113	MGC4251	NM_032376.2	210	ccgtctgtcgtctgttctatg	400063	-	-	kinase related	-
23114	MGC42530	NM_173570.1	824	ctgggggtattttgtactct	426249	-	-	-	-
23115	MGC4268	NM_031445.1	512	cggtaacgggtgcctcgtgaag	397041	-	-	-	-
23116	MGC43033	NM_152711.1	168	gtgttaaacgggaattcacaat	420007	-	-	-	-
23117	MGC4308	NM_032359.2	772	taggaactcggggagaaataaa	399974	-	-	-	-
23118	MGC43122	NM_173513.2	552	aagataaagaatcctctgtagg	425268	-	-	-	-
23119	MGC43690	NM_182552.2	2528	cagacacgcttacgtgtatgaaa	434404	-	-	-	-
23120	MGC44287	NM_182607.2	356	ctgtgacatcgggcaattaaa	434603	-	-	-	-
23121	MGC44294	NM_173499.1	278	tagaacctcgtcggacatttct	425166	-	-	-	-
23122	MGC44505	NM_178553.2	1260	cagtcgtggagtactctatgc	431200	-	-	-	-
23123	MGC44593	NM_173554.1	906	gggcttttaatgcacgaataga	426023	-	-	-	-
23124	MGC4473	NM_080719.1	637	gagcgaaggggcccaactctacc	406671	-	-	-	-
23125	MGC4504	NM_024111.2	335	gtgcgctccttgaagatcatga	386064	-	-	-	-
23126	MGC45386	NM_198527.1	109	ccgagggggcccccacatcaac	439136	-	-	-	-
23127	MGC45416	NM_152398.1	431	cagctaattctgatttggtatca	418266	-	-	-	-
23128	MGC45474	NM_152369.2	1103	atgtgtcgaacatttaattgg	415872	-	-	-	-
23129	MGC45491	NM_153246.1	985	acggcctaactgctctaatacc	422593	-	-	-	-
23130	MGC45714	NM_152464.1	538	gcgggtgctagtgcattgatcg	416979	-	-	-	-
23131	MGC45780	NM_173833.2	658	aggccctgactgcgaatggaac	428449	-	-	receptor activity	-
23132	MGC45866	NM_152259.2	1518	aagaaactccagacataataa	415196	-	-	-	-
23133	MGC45871	NM_182705.1	684	ggcagacactctctgatgaatgc	434924	-	-	-	-

693

図46 (続き)

23134	MGC45873	NM_152486.1	1400	acgcccttgccggctcaaaactta	417055	-	-	-
23135	MGC4614	NM_024294.1	980	cagcagtcacgcacaaacttat	386171	-	-	-
23136	MGC4618	NM_032326.2	288	cagcagcttcgacagaagtgtaca	399740	-	-	-
23137	MGC4645	NM_024515.2	317	tggctgaagtgcactttaaatca	386563	-	-	-
23138	MGC46496	NM_174952.1	187	cagcaggcgacaggtgtaagtc	428779	-	-	-
23139	MGC46534	NM_153340.2	739	cagctgggggtataataatccaga	422801	-	see also 9989 line	-
23140	MGC46719	NM_153713.1	436	gggctcagtggtttatgagatg	423847	-	-	-
23141	MGC46732	NM_153714.1	263	gcgggtccacgagacttaacatt	423865	-	-	-
23142	MGC4701	NM_024511.3	1722	aagcatcgggacatatatcgtca	386505	-	-	-
23143	MGC4707	NM_024113.2	847	atgcacgaccagcaatggatga	386080	-	-	-
23144	MGC4728	NM_198542.1	166	cgcctcagcaggcgtatggacc	439315	-	-	-
23145	MGC4734	NM_145051.2	633	gtgtcaactctgttgcatacttc	413204	-	-	-
23146	MGC47799	NM_173545.1	266	aggtgtgcagctcggaatcaaac	425781	-	see also 10081 line	-
23147	MGC47869	NM_175874.2	850	aaggctatggagccaatcttaga	429405	-	-	-
23148	MGC4825	NM_024122.2	723	tgggtttacgaggatatatagt	386144	-	-	-
23149	MGC48935	NM_178536.2	273	ctgtgacacatgtgtcttatgtc	431119	-	-	-
23150	MGC48972	NM_173475.1	778	aaggatctctaccgggtttacatt	424934	-	see also 10069 line	-
23151	MGC48986	NM_175881.2	372	ctgcacgggctacatagatcatg	429488	-	-	-
23152	MGC48998	NM_178550.2	135	tggctcaggggacaaattgtataag	431177	-	-	-
23153	MGC50104	NM_198498.1	836	atgaatgccgcagagccttatga	438611	-	-	-
23154	MGC50372	NM_173566.1	693	caggcatggagagctacataaac	426207	-	-	-
23155	MGC50721	NM_173806.2	411	tgcacatactactatttggaaac	428058	-	-	-
23156	MGC50811	NM_198559.1	913	agggatatggagctctattcgaag	439513	-	-	-
23157	MGC50844	NM_178562.2	360	gtgtctacgctcgctgaatgaag	431287	-	see also 10198 line	-
23158	MGC50896	NM_182553.1	603	atgtgacattctcaactactctgc	434413	-	-	-
23159	MGC51025	NM_178571.2	896	aggcaactccctgtgtattctac	431337	-	-	-
23160	MGC51029	NM_173794.2	200	tggatttaactgagtatgcaaga	427970	-	see also 10114 line	-
23161	MGC52022	NM_198563.1	490	ctgccttcggcgaaatatggaga	439538	-	see also 10340 line	-
23162	MGC52057	NM_194317.1	802	tgtgtgttagggctcatgttata	436800	-	-	-
23163	MGC5242	NM_024033.1	472	ccgtgtcgcctcacacaagtctt	385531	-	-	-
23164	MGC52423	NM_182517.1	483	atggcttcacagggacaaattac	434056	-	-	-
23165	MGC52498	NM_182621.1	202	cggcttcgcgcaccacaaagtact	434717	-	-	-
23166	MGC5306	NM_024116.1	262	tgcacaaatcgaagtataactct	386081	-	-	-
23167	MGC5309	NM_032286.1	322	ttagaagatcgtgtaagaattta	399352	-	-	-
23168	MGC5356	NM_024059.2	909	ctgctgcccaccgcctcctataa	385707	-	-	-
				transcription_regulat		-	-	-
23169	MGC5384	NM_030972.2	1551	cagctggctcgaacatagaagaat	395902	-	-	-
23170	MGC54289	NM_178454.1	470	atgaacgacacaggtactttcc	430785	-	see also 10190 line	-
23171	MGC5508	NM_024092.1	208	aagagagaagcccaggtgatgt	385954	-	-	-
23172	MGC5509	NM_024093.1	326	aagaccctcatctgatttgatg	385961	-	see also 8589 line	-
23173	MGC5528	NM_024094.1	501	aagagtagaacccaggttaaaga	385976	-	-	-
23174	MGC5560	NM_019054.1	1914	aagagtgtgtttactactaac	374777	-	-	-
23175	MGC5576	NM_024056.2	150	tggaaatcacccggagagatagc	385683	-	-	-
23176	MGC5590	NM_024058.1	273	cggctctcggacaggtttcatct	385702	-	-	-

694

図46 (続き)

23177	MGC57211	NM_175878.2	1022	ttatcaactgctatatgctgc	429485	-	-	-
23178	MGC59868	NM_198584.1	619	tgggaactactggacatatctgg	439833	-	-	-
23179	MGC5987	NM_138476.2	151	acgttagacctcgtttccataag	408355	-	-	-
23180	MGC61550	NM_182616.1	263	gcgtactactgctgttatcc	434708	-	-	-
23181	MGC61571	NM_182523.1	246	gagagggttctggaacaattca	434158	-	-	-
23182	MGC61599	NM_182505.3	460	gtgaagattcttatacaataat	433995	-	-	-
23183	MGC61716	NM_182501.1	828	acggtatacaaaccttgataaga	433976	-	-	-
23184	MGC64882	NM_182527.1	1061	ctgcccctagccattctatctct	434783	-	-	-
23185	MGC7036	NM_145058.1	767	aagagctgcagctctacaagagt	413339	-	-	-
23186	MGC71806	NM_198516.1	1232	cggtatctctgcctctcttga	438935	-	see also 10337 line	-
23187	MGC8721	NM_016127.3	304	atgtaagacaggacttagatatgg	356349	-	see also 6679 line	-
23188	MGC874	NM_016500.3	290	tggcaacgactcctgacattgaga	357889	-	-	-
23189	MGC8974	NM_052940.3	671	caggtatctcgtgatttcagaaa	405442	-	see also 9463 line	-
23190	MGC9084	NM_033418.1	866	tggatcaagtttactaggataaa	403846	-	-	-
23191	MGC955	NM_024097.1	356	ctgcaccatgtagcttgaatat	386008	-	-	-
23192	MGC9712	NM_152889.2	2042	tgggaatcgtctctatttatatt	419819	-	-	-
23193	MGC9850	NM_152705.1	442	gcggagcagccaggaacaagtag	419920	-	-	-
23194	MGC1337	NM_016499.2	339	ctgcacatgtagcctctctattac	357887	-	-	-
23195	MA2	NM_054024.2	603	aagtaggaacaggatcgtattct	405986	-	-	-
23196	MB	NM_020774.1	2314	aagggtcaatcgccacttgatct	378841	-	see also 7952 line	-
23197	MINA53	NM_032778.3	1339	ctgcgcggatacaagatacaattga	401439	-	see also 9281 line	-
23198	MIR	NM_145021.2	292	ctgtatagttctacagaagaag	412786	-	-	-
23199	MIS12	NM_024039.1	662	caggccgttgaaacagggtattct	385590	-	cell_cycle	-
23200	MIST1	NM_177455.2	274	cagcggatgcacaagcctaataa	429883	-	-	-
23201	MZF	NM_015517.3	1177	aagttccattaccgcaagtaga	353670	-	transcription_regulat	-
23202	MKLN1	NM_013255.2	513	ttgtctaaactggtatagcaagt	338424	-	or	-
23203	MLR1	NM_153686.4	567	ttggaccaagtagatagtataa	423489	-	see also 5368 line	-
23204	MLZE	NM_031415.1	973	ttggagtcaccacaaattacgtca	396714	-	see also 10004 line	-
23205	MMAA	NM_172250.1	761	aggagcggagatatgacataattc	424389	-	-	-
23206	MMRP19	NM_015957.1	515	atgtacttcgaggagggtattata	355614	-	-	-
23207	MNS1	NM_018365.1	312	cgtgttcagcgcgaagaatttc	370862	-	see also 6589 line	-
23208	MO25	NM_016289.2	1022	toggtaactactactagataga	356912	-	see also 6789 line	-
23209	MOAP1	NM_022151.3	1153	aagttgtcggcttattgactaag	382568	-	apoptosis	-
23210	MOB3B	NM_024761.2	772	cagatcaacaacaggaggaatatt	390175	-	kinase_related	-
23211	MOB4A	NM_173468.1	479	ctgcaccaaaagtattgattac	424877	-	-	-
23212	moblak	NM_130807.2	690	ctggatcgagcgcagatcaaca	406933	-	-	-
23213	MOCOS	NM_017947.1	441	cagtggagtcgcttctgttacc	364522	-	-	-
23214	MOC51	NM_005942.1	1394	tggccaactttatggaaaagatgc	334547	-	molybdenum cofactor deficiency(モリブデンコ	-
23215	MONDOA	NM_014938.2	650	ttgtgacocggagtagatacaag	346215	-	ファクター欠損症)	-
23216	MOPT	NM_194270.1	351	atgaaggacaatttaaggataat	436161	-	-	-
23217	MPN2	NM_183082.2	858	atggatatgtgataacatagaaa	435591	-	-	-
23218	MR-1	NM_015488.3	420	ctgtctctctcggacaactacagc	353509	-	see also 6437 line	-

695

図46 (続き)

23219	MRGD	NM_198923.1	110	tggagtagcgcctaaactattcc	43996	-	-	-	-
23220	MRPL10	NM_145255.2	739	gagagcaacgcggagagagattct	413927	-	-	-	-
23221	MRPL21	NM_181512.1	357	aagaactgattcttaattggaat	432376	-	see also 10235 line	-	-
23222	MRPL28	NM_006428.3	302	tggatcctgggcacaaatatatgc	335544	-	-	-	melanoma(メラノーマ)
23223	MRPL38	NM_032478.2	729	tggggagcactaccgagagattt	400351	-	see also 9212 line	-	-
23224	MRPL45	NM_032351.3	739	aagttcctgttcaagtattgatg	399877	-	-	-	-
23225	MRPL52	NM_178336.1	159	gagctccagactggtcatatgc	430711	-	-	-	-
23226	MRPL53	NM_053050.2	346	gagaggggcatcgctgattatg	405855	-	-	-	-
23227	MRPL54	NM_172251.1	239	atgccatggggctgaacatctac	424403	-	-	-	-
23228	MRPL55	NM_181441.1	433	atgctggcggatcccatgatct	432134	-	-	-	-
23229	MRPS9	NM_182640.1	769	cagaggtttcgaagaagtgaac	434845	-	-	-	-
23230	MS4A12	NM_017716.1	568	tggcctcattggagtgattct	361140	-	receptor_activity、 signal_transduction	-	-
23231	MS4A3	NM_006138.3	570	gagtoacgggacctatgcaatta	334868	-	receptor_activity、 signal_transduction	-	-
23232	MTBP	NM_022045.2	980	cagatctaccctctctgtatg	381703	-	see also 8246 line	-	-
23233	MTMR9	NM_015458.3	1898	tgggaatagatctcttaagtatt	353284	-	see also 8422 line	-	-
23234	MUC13	NM_033049.1	127	gcgaactagtggctcactcagtc	402700	-	-	-	-
23235	MUC15	NM_145650.2	1208	gggaattctagtactactacaatcc	414622	-	see also 9792 line	-	-
23236	MUC20	NM_152673.1	122	ggcagacacactcgatgacaacg	419503	-	-	-	-
23237	MUC7	NM_152291.1	305	aagttcacctcactacactataa	415391	-	-	-	-
23238	MUF1	NM_006369.3	647	atgttggcggagccaagtatttg	335357	-	-	-	-
23239	MXD3	NM_031300.2	224	ggggtcagtgcaaatgaactgg	396592	-	-	-	-
23240	my048	NM_080390.2	320	ggaggttgaggaacggtaaaagg	406371	-	-	-	-
23241	MYCT1	NM_025107.1	614	ctgactactggtccagtaacagt	393674	-	-	-	-
23242	MYH14	NM_024729.2	2904	gagtcagccgctcaaatgcaaac	389723	-	-	-	-
23243	MYOZ1	NM_021245.2	1199	tggggagcctgtagactacaacg	380892	-	-	-	-
23244	MYOZ3	NM_133371.2	769	acgactaccggaaattcaacaag	407196	-	-	-	-
23245	N4BP1	NM_014664.1	2229	gagacaaggcgtgactcctaatg	341933	-	-	-	-
23246	NAG73	NM_032570.1	783	gtgattgggcacctcacttaacg	400764	-	-	-	-
23247	NALP10	NM_176821.2	1347	ggatgtatgaactaccacttgg	429838	-	-	-	-
23248	NALP4	NM_134444.1	979	ggaggtgatagggttagtgattt	407312	-	-	-	-
23249	NALP8	NM_176811.2	1883	tgggtcccgccagtgatttact	429656	-	-	-	-
23250	NAPE-	NM_198990.1	478	atgggtccaaagcgatttctg	440321	-	see also 10351 line	-	-
23251	NARFL	NM_022493.1	397	cagctgaatcctacagatctgc	383497	-	-	-	-
23252	NARG2	NM_024611.2	920	aaggagcatatagctaccattga	387891	-	-	-	-
23253	NACDN	NM_014284.1	1989	acgcctgcttcacatctctaatg	340130	-	-	-	-
23254	NDE1	NM_017668.1	1015	cagcgtgctttgggtgataagg	360493	-	-	-	-
23255	NDEL1	NM_030808.2	966	ggggatctcttaacggaaagtgg	395248	-	see also 8953 line	-	-
23256	NDFIP1	NM_030571.2	668	caggatttggtctctctctaat	394680	-	kinase_related	-	-
23257	NDNL2	NM_138704.2	830	ccgaccccgctgactacgaattc	408668	-	-	-	-
23258	NDUFS7	NM_024407.3	487	ggaggagctactaccactattcc	386363	-	NADH dehydrogenase (ubiquinone)	-	Leigh syndrome(リ一症候群)

696

図46 (続き)

23259	NDUFV3	NM_021075.2	1855	cagcagctacacacctttagacc	380520	-	-	NADH dehydrogenase (ubiquinone)	-
23260	NECAB2	NM_019085.2	461	gggtatataccaagaagatatag	374890	-	-	-	-
23261	NEDD1	NM_152905.2	442	tggtaagcggaggcctaataaac	421617	-	-	-	-
23262	NEFH	NM_021076.2	2355	aaggctccctgcagacaaattcc	380524	-	-	molecular_function unknown	-
23263	NEGR1	NM_173808.1	218	tggctgaaccggctcaagtattat	428166	-	see also 10116 line	-	-
23264	NELF	NM_015537.2	129	ctgacgaacaccttattcgtaacc	353794	-	-	-	-
23265	NES	NM_006617.1	148	ggggaggaggagtcgtttcagattg	335943	-	-	-	-
23266	NETO1	NM_138966.2	480	cggggaatgcattcatcatcataga	409288	-	see also 9647 line	-	-
23267	NETO2	NM_018092.3	988	aggccaagccgttgattgcatct	366600	-	-	-	-
23268	NEUROD2	NM_006160.2	685	ctgcgcctagccaagaactatat	334900	-	see also 4263 line	-	-
23269	NEUROG2	NM_024019.2	567	gggtctgtgtacacgattgcaaac	385475	-	-	-	-
23270	NFAM1	NM_145912.3	787	ggagaccgcatagattcgaaga	414962	-	-	-	-
23271	NFKBIB	NM_002503.2	990	ggcggagacagggcgatgaatac	330989	-	transcription_regulat or,	transcription co-activator	-
23272	NFKBIL1	NM_005007.2	429	cagatgcctacacagattcttc	333363	-	-	-	rheumatoid arthritis(関節リウマチ)
23273	NFKBIL2	NM_013432.3	2080	cagaaccccccttaataagcaat	338916	-	-	-	-
23274	NFRKB	NM_006165.2	3104	cagacggttcgtggaactactoc	334962	-	see also 4268 line	-	-
23275	NGEF	NM_019850.1	774	aggaaataccggagataaataagact	375541	-	-	-	-
23276	NGLY1	NM_018297.2	896	ctgcagattcagcaatogattcc	369921	-	see also 7372 line	-	-
23277	NGX6	NM_016446.2	1809	ctggccattcggagtcgatattg	357487	-	-	-	-
23278	NHLRC1	NM_198586.2	485	gggagagatgcgcgcacatcagtttg	439850	-	-	-	-
23279	NHS	NM_198270.2	1617	gagtgccaaacccagagatattct	437297	-	-	-	-
23280	NICE-3	NM_015449.1	518	tggatctcgaaacactagtagc	353088	-	-	-	-
23281	NICN1	NM_032316.2	320	ggaggagcccgaggagatgtatc	399698	-	-	-	-
23282	NIF3L1	NM_021824.1	1117	ggatgtcccatcatcatattt	381094	-	-	-	-
23283	NIP2	NM_016478.2	212	ctgccacatcccgatcagttaat	357703	-	-	-	-
23284	NIP2A	NM_030922.2	552	ggactctcagcgtgctagttaagt	395464	-	-	-	-
23285	NIPSNAP1	NM_003634.1	621	gtgcacctgtggcgattctcagg	331852	-	see also 2452 line	-	-
23286	NIPSNAP3	NM_018376.2	391	aggaaatggcaagaacaatctatc	370919	-	-	-	-
23287	NJMU-R1	NM_022344.1	628	atgttgatgcccaatccaaagg	382616	-	kinase_related	-	-
23288	NKAP	NM_024528.1	1015	aggctgaagaacacacacagattta	386709	-	-	-	-
23289	NKD2	NM_033120.2	380	gtggacgttcacgcctctatgact	403370	-	-	-	-
23290	NLGN1	NM_014932.2	2566	cagcgcactactaccaatgatct	346035	-	see also 6115 line	-	-
23291	NLGN3	NM_018977.1	675	tggatctcgtcgtacttaccatc	373933	-	see also 7624 line	-	-
23292	NOB1P	NM_014062.1	383	ctgcacattctggtttccatct	339509	-	-	-	-
23293	NOD9	NM_024618.2	1908	aaggtgggtccacagagtggttg	388063	-	-	-	-
23294	NOL6	NM_022917.4	1264	cagtaaacgggacatcagtttatgt	384872	-	-	-	-
23295	NOPE	NM_020962.1	2952	ggcgacacatcggtactttcca	380310	-	-	-	-
23296	NOR1	NM_145047.2	995	ggagcccggtatccggttgatct	413163	-	-	-	-

図46 (続き)

697

23297	NOSIP	NM_015953.3	590	cagtgaggctcctcaagaagg	355600	-	-	-
23298	NOSTRIN	NM_052946.2	1043	aagogaactcctacaactgtca	405488	-	see also 9464 line	-
23299	1.Nov	NM_144663.1	597	ctgtatggatcgtgttctacttc	411134	-	-	-
23300	NPD007	NM_020684.2	802	gaggagagatcctggttcaagt	377973	-	-	-
23301	NPHP3	NM_153240.3	3133	atagtgaggacacatccatatact	422547	-	-	-
23302	NPL	NM_030769.1	685	gagcaagtggcagtaactataac	394930	-	-	-
23303	NPL4	NM_017921.1	1720	gaggccgtggcggaccagaaatga	364027	-	-	-
23304	NPR2L	NM_006245.3	161	ctgcgcgcacatgaatgcatattct	335734	-	-	-
23305	NRAP	NM_006175.2	1783	ggaggagctgtctagcaatataa	335019	-	-	-
23306	NRCAM	NM_005010.1	1241	aaggagctgcctaccaccaattatt	333400	-	see also 3503 line	-
23307	NRP598	NM_181806.1	437	caggagataccagaagattgtcaga	433538	-	see also 10254 line	-
23308	NS	NM_014366.3	1384	cagcttcctgggtctgacaaatgg	340402	-	-	-
23309	NS3TP2	NM_023927.1	1033	gagaaactctcgagatttccatgc	385417	-	see also 8553 line	-
23310	NSFL1C	NM_016143.3	1966	atgactactttccccaacaaaga	356454	-	see also 6693 line	-
23311	NSPC1	NM_032673.1	206	ttgtgaagtacctccaaactagc	401202	-	-	-
23312	NT5C2L1	NM_152729.2	230	agggtacgataagaagaatgctca	420141	-	-	-
23313	NUDT12	NM_031438.2	1343	aggatgcccgtgtgttcactaga	397004	-	-	-
23314	NUDT13	NM_015901.3	611	gtgtgccttccaaataataat	355400	-	-	-
23315	NUDT14	NM_177533.2	199	cagcgtgacccgtctcttattca	430274	-	phosphatase	-
23316	NUDT15	NM_018283.1	481	gtggatgtgactcatgattcaaga	369692	-	-	-
23317	NUDT8	NM_181843.1	323	ctgtgcggcgtgtgtatgacc	433806	-	-	-
23318	NUP133	NM_018230.2	2407	gtggcatccgaacgggtaataata	368841	-	-	-
23319	NUP210	NM_024923.2	199	ggccacgcgggttaactcaag	392209	-	see also 8807 line	-
23320	NUP1	NM_014089.2	507	cagctagcgtctgactcttctcg	339539	-	see also 5488 line	-
23321	NURIT	NM_152719.1	153	ttgcaactcaaggccaaatatac	420074	-	-	-
23322	NX17	NM_020665.2	558	gagggtgcaatcagccataagaat	377888	-	-	-
23323	NXN	NM_022463.3	1228	ctgactccctgcggagattacacc	382998	-	-	-
23324	NXPH1	NM_152745.1	1343	tggaatggagacatttggttt.	420427	-	-	-
23325	NY-REN-					-	see also 6676 line	-
23326	58	NM_016122.1	1416	aaggatcgtgaattaatacgtaa	358313	-	-	-
23327	NYD-SP12	NM_031955.2	167	gtgaataggatctatcatgata	397494	-	see also 9060 line	-
23328	NYD-SP14	NM_031956.1	724	aagccgagggcacacatgcatatg	397532	-	-	-
23329	NYD-SP17	NM_032800.2	604	atgcacaaacgactaaagatatcc	401103	-	-	-
23330	NYD-SP18	NM_032599.1	621	tgatccgactgttcaattct	401084	-	-	-
23331	NYD-SP20	NM_032598.2	1056	ctgttacacctggcccatattat	401066	-	-	-
23332	NYD-SP21	NM_032597.2	1214	atgcaatccctagatatgtatc	401025	-	-	-
23333	NYD-SP26	NM_033122.2	284	atgatatggggaccgactttatt	403433	-	-	-
23334	NYD-SP28	NM_033124.2	1591	cagccctgttccatcactatagc	403494	-	-	-
23335	NYD-SP29	NM_145172.1	1247	toggtagccgtgcgaacttttt	413668	-	-	-
23336	NYD-TSP1	NM_032567.2	1407	ttgcaataccagttcaatattc	400757	-	-	-
23337	OAZ	NM_015069.1	1279	gagatgttcggcagacataatag	347730	-	see also 6220 line	-
23338	OCIA	NM_017830.1	263	gagatcttcgagaaatgaatg	362844	-	see also 7158 line	-
23339	OCSP	NM_031945.2	295	gagcagctgcgtcaagatctga	397464	-	-	-
23340	ODF3	NM_053280.3	860	atgtgcgggtgaccaggttcaag	405987	-	-	-

698

図46 (続き)

23340	ODF4	NM_153007.3	190	cagagtagctctgggaatgagttc	421797	-	-	-	-
23341	OFCC1	NM_153003.1	557	gagtcacagaataacacaaagaag	421792	-	-	-	-
23342	OKL38	NM_013370.2	1148	cgggagacatgccacactactaca	338849	-	-	-	-
23343	OLIG3	NM_175747.2	660	aggcttgattggcgagatctatgg	429270	-	-	-	-
23344	OR12D2	NM_013936.2	120	tggagccggtctcgtgattgta	338970	-	receptor_activity, signal_transduction , gpcr	olfactory receptor	-
23345	OR2B2	NM_033057.1	452	gtgcttttagcaattcagattta	402746	-	receptor_activity, signal_transduction , gpcr	rhodopsin-like receptor	-
23346	OR2C3	NM_198074.1	60	acgaccctcactagaaactgtcc	436957	-	-	-	-
23347	OR2F1	NM_012369.1	800	ctgtccttcaggagaagtgttc	338104	-	receptor_activity, signal_transduction , gpcr	olfactory receptor	-
23348	OR2S2	NM_019897.1	719	tcgtcttctacgggacatttc	375556	-	receptor_activity, signal_transduction , gpcr	olfactory receptor	-
23349	OR3A3	NM_012373.1	650	tggcacccttggtcttctcatcagt	338105	-	receptor_activity, signal_transduction , gpcr	olfactory receptor	-
23350	OR51B2	NM_033180.1	217	ttgaccacagatgcctactgtta	403543	-	-	olfactory receptor	-
23351	OR7C2	NM_012377.1	244	ctgtgtaataatcacaacaaag	338108	-	-	olfactory receptor	-
23352	ORA0V1	NM_153451.1	114	tggcagtcagagcatatctcgatg	423262	-	-	olfactory receptor	-
23353	ORA0V2	NM_018043.4	805	gggacgagattgtctatgagatct	365743	-	-	-	-
23354	ORMDL2	NM_014182.3	13	gggtggcacacagcgaagtaaac	339938	-	-	-	-
23355	ORMDL3	NM_139280.1	427	cggccctctcggaaagtcttgacc	409610	-	-	-	-
23356	OSAP	NM_032623.2	659	aagaacgaacactctgtatgaata	401143	-	see also 5530 line	-	-
23357	OSRF	NM_012382.1	313	aagatatcggggaggcaattcaga	338117	-	see also 9262 line	-	-
23358	OSTbeta	NM_178859.2	161	cagctgtggtgggtcattataagc	432019	-	-	neurohypophyseal hormone	-
23359	OSTM1	NM_014028.2	766	tagtctgtacagtgaaatgcgaaa	339330	-	-	-	-
23360	OTOA	NM_144672.2	1612	aaggaggcaacctggattcaact	411258	-	see also 9728 line	-	-
23361	OTOP1	NM_177998.1	1722	ctgtcgacctgagatgacaatg	430364	-	see also 10176 line	-	-
23362	OTOP2	NM_178160.1	1220	gggtcagtagcaccactctctact	430538	-	-	-	-
23363	OTOP3	NM_178233.1	726	gtgggtcttgcccgctaccacatg	430627	-	-	-	-
23364	OVCA2	NM_080822.1	461	ggggcatttgggttcaaggaaatcc	406787	-	-	-	-
23365	OVCH1	NM_183378.1	1258	gggagctctggctatattggtaga	435769	-	-	-	-
23366	OVTN	NM_198185.1	987	aagcctccacctattattataga	437214	-	-	-	-
23367	P114- RHO-GEF	NM_015318.1	165	acgcaactcggaccaatocacagg	351466	-	-	-	-
23368	p25	NM_007030.1	620	tggcagatcaggctatgtctcc	336881	-	-	-	-
23369	p30	NM_181716.1	656	ctgagcacataacgacttacacg	432991	-	-	-	-

図 46 (続き)

699

23370	P39IP	NM_017569.2	2237	cagcagcccaacactgtatctcc	359173	-	see also 7036 line
23371	P518	NM_198180.1	6	aaggccttacccctgatctact	437178	-	-
23372	P5326	NM_031450.2	252	atggacccttgctagtgttga	397056	-	-
23373	PACAP	NM_016459.2	560	caggacatgtttgcactactgg	357579	-	-
23374	PACRG	NM_152410.1	528	aagctggaattaccacttatct	416432	-	-
23375	PAF53	NM_022490.1	1097	aaggcgaagattactgcatact	383480	-	transcription_regulat
23376	PAGE-5	NM_130467.2	306	atgagtgagcatgtaacaagatc	406917	-	-
23377	PAK1P1	NM_017906.1	783	tagtgccctctgcgaattaaa	363818	-	-
23378	PALM2	NM_053016.1	1116	gtgacggacgtgtccactattga	405795	-	see also 9481 line
23379	PALMD	NM_017734.2	1873	gggactgaggaatccactcctaac	361305	-	-
23380	PAN3	NM_175854.4	1277	ctgattgctgaccattcataca	429329	-	see also 10154 line
23381	PAQR9	NM_198504.1	501	cagcacgggtgctactactact	438743	-	see also 10333 line
23382	PBF	NM_018660.1	1665	cgggacgggtcgtgaagcttca	372387	-	-
23383	PBOV1	NM_021635.1	288	aaggcaacagagattcattgatt	380936	-	-
23384	PCNX	NM_014982.1	3237	cagattcgattgaatagactatt	346627	-	see also 6164 line
23385	PD2	NM_019088.1	1179	gggtgaagggttactacaatg	375149	-	see also 7702 line
23386	PDCD10	NM_007217.3	740	cagtaagatccagatgagatca	337216	-	-
23387	PDCD4	NM_014456.3	739	aagaccttaacccaatcataca	340708	-	see also 5683 line
23388	PDCD7	NM_005707.1	942	cagcggctgagcggtactatct	334181	-	see also 3960 line
23389	PDIP38	NM_015584.2	558	gtgaccttctggctaacatga	354334	-	see also 6497 line
23390	PEGASUS	NM_022466.2	514	atgttagtagacgggttgaaag	383004	-	-
23391	PEL1	NM_020651.2	4891	gggtcaacacactagcatttcc	377871	-	see also 7907 line
23392	PEL2	NM_021255.1	1253	aaggacgccaaactcatctttca	380924	-	-
23393	PEPP3	NM_014935.2	1601	cgggcagccagctctattatgat	346103	-	see also 6118 line
23394	PERQ1	NM_022574.2	704	cggcgcaagttgaattgattt	383563	-	-
23395	PEX11G	NM_080862.2	187	aaggacatcttgcgactcttga	406588	-	-
23396	PEX26	NM_017929.2	774	gagcggcagctgagtgacttca	364272	-	-
23397	PEX5R	NM_016559.1	658	atggagaagatgttaagtttcag	358118	-	-
23398	PF20	NM_024532.2	715	ccgactataaggggtgttacatga	386800	-	-
23399	Pfs2	NM_016095.1	220	ctggcgattaacctgaacaaag	356263	-	-
23400	PGA5	NM_014224.1	86	aggtcccccctcatcagaagaag	339972	-	pepsin A
23401	PGBD2	NM_170725.1	662	gagtttaacggctcagggaattga	424125	-	-
23402	PGBD4	NM_152595.2	698	atgattccagctcaaggatga	418579	-	-
23403	PGBD5	NM_024554.2	20	gagctctctctgcaaaagtact	387200	-	-
23404	PXSF1	NM_174947.2	458	aagtctgattgacattctcata	428778	-	-
23405	PHAX	NM_032177.1	55	tggaggtcgcgataggagaaga	398509	-	-
23406	PHC3	NM_024947.2	1703	cagactgttcgagtaaacctaca	392514	-	see also 8814 line
23407	PHF7	NM_016483.4	986	ctgtcttatcttatctagttagc	357757	-	transcription_regulat
23408	PHGDHL1	NM_177967.2	944	tagccataagtgcactatgtcc	430334	-	-
23409	PHOSPHO	NM_178500.2	696	gaggacactgctcagtttggg	430916	-	phosphatase
23410	PHYHIP	NM_014759.1	495	tgggaggggtcaoccactacttc	343160	-	-
23411	PIB5PA	NM_014422.1	1080	tgggtaccacaacaaatcgtatcc	340568	-	-

図46 (続き)

700

23412	P1BF1	NM_006346.1	83	cagttcctacaggtgatatttcc	335244	-	see also 4443 line
23413	P1GN	NM_012327.3	2007	atgcttacccttggaacttaactgc	338076	-	see also 5279 line
23414	P1GT	NM_015937.2	433	ctggcctctctoaactctatcg	355517	-	-
23415	P1GW	NM_178517.2	630	aaggctcaaaatgcatctattt	431002	-	see also 10195 line
23416	PIK3AP1	NM_152309.1	1413	aggcccccagctgagttatataga	415481	-	kinase related
23417	PIP3AP	NM_019061.2	2052	cagcctacacacgttggtattcc	374844	-	see also 7685 line
23418	P1SD	NM_014338.3	870	gtggcctgcacagcgggtattagc	340216	-	-
23419	P1WL1	NM_004764.2	1285	tagcctgttcatacaagactaact	332957	-	see also 3275 line
23420	P1WL2	NM_018068.2	1379	tctgacctatctgtattgatgatg	366076	-	-
23421	PJA1	NM_022368.2	335	caggagggtatcagtcacataca	382707	-	-
23422	PKD1L3	NM_181536.1	1468	gtgttactaagcgcgaatcgtaa	432470	-	see also 10237 line
23423	PKHD1L1	NM_177531.2	1531	ttggactgtacagtatogaaat	429935	-	see also 10166 line
23424	PLA04	NM_182832.1	295	tggcctaacaatggttctatata	435379	-	-
23425	PLA08	NM_016619.1	425	aaggagagccatgcgtactttct	358466	-	-
23426	PLEKHB2	NM_017958.1	522	gcgtaccgcacaggaactcaagt	364880	-	-
23427	PLVAP	NM_031310.1	417	cgggtcactctacacgaacaatca	396710	-	-
23428	PMAIP1	NM_021127.1	260	caggagatttggagacaaactga	380528	-	-
23429	PMFBP1	NM_031293.1	699	gggcaacatcgagttactagaat	396535	-	transcription_regulat
23430	PNAS-131	NM_031446.2	449	aaggactgcaaacccaaatcatg	397048	-	or
23431	PNAS-4	NM_016076.2	609	ggagttctcgtcggtacatcgc	356213	-	-
23432	PNLDC1	NM_173516.1	283	ttgccatcgagtggtatctaaa	425274	-	transcription_regulat
23433	PNMA2	NM_007257.3	736	caggccacggagatagtcaaaaga	337354	-	or
23434	PNMA5	NM_052926.1	754	aagatgaggccggagtgatgaca	405342	-	-
23435	PODN	NM_153703.2	918	ggcagcctgcgcggcgtatatacc	423709	-	-
23436	POF1B	NM_024921.2	931	ctgactcgagccgtaagaatacgc	392172	-	-
23437	POLN	NM_181808.1	1418	ggagaacgggttcttataacgggc	433706	-	-
23438	POMT1	NM_007171.2	1587	gtgaacacttcgcgtctctaaa	337001	-	see also 4973 line
23439	POP5	NM_015918.3	408	ttgcagaaactgcactgatgaagg	355487	-	-
23440	POT1	NM_015450.1	1201	atgaggcgagtttggatataatt	353155	-	-
23441	PP1057	NM_031285.1	709	gggttggtttatgctctatcaatg	396491	-	-
23442	PP1201	NM_022152.3	459	ggagaaatgtggctgtctactacg	382578	-	-
23443	PP2447	NM_025204.2	879	ggcgacgtctacataacactaca	394411	-	-
23444	pp9099	NM_025201.3	1293	cagccaggggaacgggtatctatcg	394356	-	-
23445	PPAN	NM_020230.2	1254	aagatgatgacatcgaggtatttc	376304	-	-
23446	PPFIA3	NM_003660.1	3267	gtggacgctcgaatgttagatca	331953	-	-
23447	PPIL5	NM_152329.2	645	aggaaactactaccatgaatcgc	415689	-	-
23448	PPL13	NM_020129.1	504	atgtgcgtcacaaaggaatacaag	375617	-	-
23449	PPN	NM_022825.1	1182	gggggtgcggagccttaacttgc	384267	-	see also 8480 line
23450	PPPIR12C	NM_017607.1	1060	ctgagcagctgcggagaaatttc	359413	-	-
23451	PPPIR14C	NM_030949.1	532	ggactgtcttctcggataagagg	395669	-	-
23452	PPPIR14D	NM_017726.6	261	ccgcctgacagtggaagtatgacc	361162	-	-
23453	PPPIR15B	NM_032833.1	1598	ggaggccgaataaagttagttga	401836	-	see also 9300 line

図 46 (続き)

701

23454	PP1R3B	NM_024607.1	683	cagtagcgaagacacattatgc	387827	-	-	-
23455	PR1	NM_183240.1	118	ctgtctcgtgctccatttgtga	435635	-	-	-
23456	PRAM-1	NM_032152.3	636	cagcctgagttgagtagctcttc	398400	-	-	-
23457	PRAME	NM_006115.2	1396	gtggggatcacgggagtagcagc	334837	-	-	melanoma(メラノーマ)
23458	PRDM11	NM_020229.1	706	gagagtagcagtgcgatgtgtaaa	376275	-	-	-
23459	PRDM8	NM_020226.1	1505	tggctcaatogccagagataag	376260	-	see also 7806 line	-
23460	PREI3	NM_015387.1	573	gtgtcatcgggtttactaagttg	352173	-	-	-
23461	PRES	NM_198999.1	2237	tggagagctcgtgtatatttat	440570	-	see also 10354 line	-
23462	PRG1	NM_002727.1	183	aggacaatgttogaactacttc	331026	-	-	-
23463	PRG1	NM_014839.2	1044	cgggctaaccaggataactcagt	344476	-	see also 6044 line	-
23464	PRIC285	NM_033405.2	2210	gtggcggcaaggcttactacc	403788	-	transcription_regulat	-
23465	PRICKLE1	NM_153026.1	1855	gtgtcgggattcgtggtattct	421941	-	or	-
23466	PRICKLE2	NM_198859.1	1373	aggatcagcagaggtcaaatga	439969	-	-	-
23467	PRIMA1	NM_178004.1	309	gtgtcggggctgtgtgcatcga	430372	-	-	-
23468	PRKRIP1	NM_024653.1	109	acgctcgtcctcccaagaatgc	388542	-	-	-
23469	PRND	NM_012409.2	151	ggggcatcagcagcagataaag	338138	-	-	-
23470	PRO0149	NM_014117.2	719	tggctatcagcagcagcaataagg	339598	-	-	-
23471	PRO0628	NM_014134.1	583	ctgttaacacggcatttggctact	339621	-	-	-
23472	PRO0971	NM_018569.2	723	agatgactcgaattgttttg	372248	-	-	-
23473	PRO1580	NM_018502.2	1119	gggcttggctcctccaacaac	372047	-	-	-
23474	PRO1853	NM_018607.4	589	cagttactcaaggatgatgat	372317	-	-	-
23475	PRO1914	NM_014106.1	1286	cagatcaccccccactactacc	339585	-	-	-
23476	PRO2268	NM_018520.2	214	aagccaaacagagtagacttta	372110	-	-	-
23477	PRO2730	NM_025222.2	1641	ctgcattcctctgtaattgttt	394458	-	see also 9357 line	-
23478	PRO2964	NM_018547.1	646	tggagaatacttgtaattcagt	372184	-	-	-
23479	Prostein	NM_033102.1	1872	tgggtctgtgctgccattacttt	403255	-	-	-
23480	PSARL	NM_018622.3	594	cagcggacaatgatcagatattt	372341	-	-	-
23481	PSD	NM_002779.2	2288	ctggtacactcgcacatgtag	331070	-	signal_transduction	-
23482	PSFL	NM_031301.1	100	cogagccgttgcgtatccttc	396598	-	-	-
23483	PSIP2	NM_021144.2	364	aggcagcaactaaacaataaat	380534	-	-	-
23484	PTD002	NM_016144.2	265	aggcagtggtatcacatgtgaag	356467	-	see also 6694 line	-
23485	PTD012	NM_014039.2	658	gtgtgattacttggtatcttt	339360	-	see also 5469 line	-
23486	PTF1A	NM_178161.1	32	ggggcctagacgccttctctct	430546	-	-	-
23487	PTPNS1	NM_080792.1	1255	tgtcatgagcccgagagaagatgc	406776	-	-	-
23488	PTPNS1L2	NM_178460.1	175	ggggagtaactatcttggttgc	430792	-	-	-
23489	PTRF	NM_012232.1	424	gaggaaccacagctctatattg	337793	-	-	-
23490	PTX1	NM_016570.1	354	ttagagcggatgtattggattta	358162	-	see also 6917 line	-
23491	PURB	NM_033224.2	363	ggcgctaaagagcgaattcttg	403614	-	see also 9382 line	-
23492	PVRL3	NM_015480.1	764	aggacatccgatactcttcata	353456	-	see also 6429 line	-
23493	PWDMP	NM_025132.2	3863	atgtcaggagacccgatatac	393923	-	see also 8867 line	-
23494	PYC1	NM_152901.1	179	ggcgctcgtggcagctagatatac	421532	-	-	-
23495	PYM	NM_032345.1	479	gagcaggactcttgataaggtgt	399857	-	-	-
23496	R29124.1	NM_033543.1	229	cagctaactcgcagcatatgaat	404116	-	-	-

図46 (続き)

23497	Rab11-FIP2	NM_014904.1	738	cagggtggcaatcaatctcaatga	345456	-	-	-
23498	RAB15	NM_198886.1	563	atggcattggactctcttaaaaca	439873	-	see also 10348 line	-
23499	RAB31L1	NM_013401.2	1219	aggacgagagagccatgtctgg	338905	-	-	-
23500	RAB31P	NM_022456.2	425	gtgcggaaatattatgtatcagc	382842	-	-	-
23501	RABAC1	NM_006423.1	244	gagctactaccagagcaactatgt	335539	-	-	-
23502	RAD9B	NM_152442.1	980	tggcttggattgatgatg	416851	-	cell_cycle	-
23503	RAI14	NM_015577.1	737	cagacctaaccctttagattct	354250	-	-	-
23504	RAI16	NM_022749.4	1575	ctgattccggcttcaactcc	383896	-	-	-
23505	RAI2	NM_018719.2	588	tagcgacgcttacagaatgaga	372940	-	-	-
23506	RAMP	NM_016448.1	828	atgggatttaccgaagaattata	357517	-	see also 6861 line	-
23507	RANBP9	NM_005493.2	1928	tggacgagagctgcaagcaatga	333905	-	see also 3817 line	-
23508	RANGNRF	NM_014185.1	194	cgaacggctccggacacaaag	339947	-	-	-
23509	RAP140	NM_015224.1	2323	gtggcactgaccataagctaca	350039	-	-	-
23510	raptor	NM_020761.1	3393	acgagattggacagaccaatatt	378589	-	see also 7946 line	-
23511	RARG-1	NM_016167.3	403	cagcttcacagactaacatcaag	356507	-	-	-
23512	RARRES3	NM_004585.2	263	gtgtggagagctgttctctatcg	332626	-	-	-
23513	RB1CC1	NM_014781.1	1377	cagcaagatgaatactacattga	343291	-	see also 5953 line	-
23514	RBPM52	NM_194272.1	406	cggccgttcaagggtgtatgaagg	436173	-	-	-
23515	RBT1	NM_013368.2	450	caggcaatgctctatcataaaca	338846	-	-	-
23516	RC3	NM_015263.1	4452	tggctactcgagattactactgaga	350535	-	-	-
23517	RCP	NM_025151.2	931	ttgtgtgctctcgtcttaagaat	394080	-	-	-
23518	REC14	NM_025234.1	86	cagctacggtattctctcaaca	394493	-	-	-
23519	RFPL1	NM_021026.1	1086	aagagtgcttgagttatgtctgc	380368	-	-	-
23520	RGMA	NM_020211.1	831	tggccgtctatcgacataatta	376157	-	-	-
23521	RGR	NM_033127.1	1714	ctgtatcagctgctgattgtgc	403524	-	see also 9373 line	-
23522	RhoGAP2	NM_021262.2	2196	acgaatgtcccggttagaagaag	380860	-	-	-
23523	RI03	NM_024557.2	1044	gtgtcccaagactttaaagatg	387259	-	-	-
23524	RIMS4	NM_182970.2	523	aagtcgtggaccacactgtataa	435499	-	-	-
23525	RIPX	NM_014961.1	1450	caggatcattacccttacaagaag	346369	-	see also 6152 line	-
23526	RIS1	NM_015444.1	321	tcgggggtgcccctcaatgcttca	352988	-	-	-
23527	RNF10	NM_014868.3	1320	ttgttggatgataccattacgatg	345031	-	-	-
23528	RNF111	NM_017610.6	1636	aagctactagcgtcttcattaac	359472	-	-	-
23529	RNF121	NM_018320.3	662	gagtcgggcatgctcaccacaaca	370297	-	see also 7403 line	-
23530	RNF122	NM_024787.2	606	gagtgagcgtacaggatataagg	390669	-	see also 8747 line	-
23531	RNF123	NM_022084.2	719	ctgctgaaacaggtatcacctgg	381791	-	-	-
23532	RNF125	NM_017831.2	901	ccgtttaatacccgatgagaatc	362880	-	-	-
23533	RNF135	NM_032322.3	1160	aggaacttgactcttctgtgt	399720	-	-	-
23534	RNF141	NM_016422.3	238	gagagtgctctccttaacttata	357416	-	see also 6848 line	-
23535	RNF146	NM_030963.2	989	ctgacgggagcgacagtgatca	395888	-	see also 8983 line	-
23536	RNF148	NM_198085.1	666	tagtcgcgttgatgataagaac	437020	-	-	-
23537	RNF152	NM_173557.1	961	cggcatcgtcttcaacaatgt	426065	-	-	-
23538	RNF17	NM_031277.1	999	aaggagcttcttctgtacgatac	396406	-	-	-
23539	RNF2	NM_007212.2	380	atgtgcccaatttcttggatat	337082	-	see also 5019 line	-

図 46 (続き)

703

23540	RNF20	NM_019592.5	1648	ctgcagtcacagctctgtactga	375413	-	see also 7717 line
23541	RNF24	NM_007219.2	255	gagctcggatttccacattaca	337232	-	see also 5032 line
23542	RNF3	NM_006315.3	1029	ttgtactaggtggagattcaag	335209	-	see also 4420 line
23543	RNF31	NM_017999.3	485	tggcgtgggtcaagatttaataa	365193	-	-
23544	RNF32	NM_030936.2	696	cagttacaaccccgagtgatata	395590	-	-
23545	RNF36	NM_080745.2	735	gcgtctggcatggtgacattaa	406734	-	-
23546	RNF40	NM_014771.2	1570	atgcgcacactgattagtgct	343198	-	-
23547	RNF41	NM_005785.2	749	atgagctgcacacataactgc	334259	-	see also 4044 line
23548	RNF44	NM_014901.3	749	gagccgttcatgttgatctcc	345443	-	see also 6084 line
23549	RNF8	NM_003958.2	416	gagcgcgtctggaaccttaag	332304	-	-
23550	ROBO4	NM_019055.4	1014	gggccaagactacgagttcaag	374785	-	see also 7684 line
23551	RP4-	NM_019118.2	372	gtgtcacccgtgataggaaattc	375303	-	-
23552	RPC2	NM_018082.2	2350	ttggggcttgcctgtatataaa	366462	-	transcription_regulat or
23553	RPGRIP1	NM_020366.2	1675	gagaggttgactgcactactaga	376932	-	see also 7849 line
23554	Rpp25	NM_017793.1	1222	tagtctcagctacttaagaacg	362455	-	-
23555	RSHL2	NM_031924.3	419	gggagcggagcccgatagctcc	397353	-	-
23556	RTBDN	NM_031429.1	660	gagccctgaatgcgaatcctcc	396948	-	RAS small monomeric
23557	RTKN2	NM_145307.2	1031	ttgcgagagtgtaaaactattg	414311	-	signal transduction
23558	RTP801	NM_019058.1	569	aagccaggtgggcaagaactac	374801	-	-
23559	RTN	NM_173630.2	3757	atgctcggaaactctttacgtt	426813	-	see also 10092 line
23560	RWDD3	NM_015485.2	141	cagatggagccggtgttcagaatt	353491	-	-
23561	RYD5	NM_145651.1	161	gggagacctgggcaagtaaatg	414630	-	-
23562	SACM1L	NM_014016.1	1214	aagcgtgttcgcgaagaattgc	339184	-	see also 5456 line
23563	SAGE	NM_018666.1	1543	atgtttatccgggtttattaat	372421	-	-
23564	SAMD3	NM_152552.1	552	caggccgacatgactaagtatct	418045	-	-
23565	SAMD4	NM_015589.2	947	cagtgagctgtgttaacagacc	354350	-	-
23566	SAMD6	NM_173551.1	735	atgaactgactggaatccttaag	425960	-	-
23567	SAMD7	NM_182610.1	534	atgattcaacgggaatcactgc	434637	-	-
23568	SAMD8	NM_144660.1	447	cggaccataactgactgaatt	411090	-	see also 9727 line
23569	SAMSN1	NM_022136.2	678	atgcccaccatagaaacagt	382440	-	see also 8300 line
23570	SAP130	NM_024545.2	1661	gtgtccactatccgacagtatcc	386974	-	see also 8636 line
23571	SAS10	NM_020368.1	1509	caggttggtgaagttcgttaaga	377034	-	-
23572	SCAMP-4	NM_079834.1	480	ctgctgtgggcaattggattct	406367	-	see also 9510 line
23573	SCAMP5	NM_138967.1	419	gcgtctgcgctggatgtctacc	409322	-	-
23574	SCAPIN1	NM_080672.2	1283	aggcgtgaacgactccattatt	406635	-	phosphatase
23575	SCDR10	NM_198533.1	1042	gtgccaacagcccaagatgaat	439262	-	-
23576	SCG3	NM_013243.2	442	gtgttagtctccgattcaagc	338373	-	see also 5359 line
23577	SCGB3A2	NM_054023.2	125	gtgaccatcagccctttgtgta	405969	-	-
23578	SCML4	NM_198081.1	499	gtgtcagctcggcttcttga	436994	-	-
23579	SCN4B	NM_174934.1	258	gggaagagccaccgacatcac	428723	-	channel
23580	SCNM1	NM_024041.1	633	aagacgagccctggaccattatc	385615	-	-
23581	SCOC	NM_032547.1	326	aagacttaataatcaagtgttg	400644	-	-

図46 (続き)

23582	SDBCAG8	NM_015966.2	309	ttgtgctatctgagttatg	355658	-	-	-
23583	SDCCAG1	NM_004713.2	683	tggtatctgggtaattgcaag	332769	-	see also 3231 line	-
23584	SDCCAG1	NM_006649.2	1397	ctgtctgaattgagagtaata	336038	-	-	-
23585	SDCCAG8	NM_006642.1	739	aggaaacgaacttaagtaata	335998	-	-	-
23586	SDK1	NM_152744.2	2336	ctgactcggctgctacataca	420357	-	see also 9941 line	-
23587	SDK2	NM_019064.2	5016	caggcggctctcagtcagaact	374876	-	-	-
23588	SE57-1	NM_025214.1	243	gagctacgtcgcctcacattat	394424	-	-	-
23589	SEC13L	NM_031216.2	647	atgatacgcgtggaagtgatga	395990	-	see also 8992 line	-
23590	SEC31L2	NM_015490.3	375	cgggacaaatggactctatttc	353514	-	-	-
23591	SELH	NM_170746.1	334	tggagaggaggcgaogttgtatc	424154	-	-	-
23592	SELM	NM_080430.1	274	aggacattccattctatcacac	406378	-	-	-
23593	SELV	NM_182704.1	1108	gagcgttatcgatgaggaaatca	434921	-	-	-
23594	SEMA3D	NM_152754.1	508	atggccagtagcatgtaatttt	420613	-	see also 9948 line	-
23595	SES1	NM_014766.2	1335	gtgttgcacggagagtaagttc	343182	-	DNA binding	-
23596	Ses2	NM_138355.1	503	ctggccattctctaccatagc	407569	-	-	-
23597	SES3	NM_024583.2	234	gggaacgtcttaagtgatcatat	387580	-	-	-
23598	SETMAR	NM_006515.1	138	cagtaactctctgactatgagt	335698	-	see also 4558 line	-
23599	SEZ6	NM_178860.2	1409	ggggtagtgccgccttcattgt	432033	-	see also 10223 line	-
23600	SFMBT1	NM_016329.1	2280	tgggcatagtaacttagcttgt	357020	-	see also 6811 line	-
23601	SH2BP1	NM_014633.1	884	tagcaacctatgattgaacc	341485	-	see also 5801 line	-
23602	SH3GLB1	NM_016009.2	338	aagctcaagctgtataaacac	355829	-	see also 6608 line	-
23603	SH3MD1	NM_014631.1	1673	gaggcttcctggccatagcaga	341445	-	-	-
23604	SH3MD2	NM_020870.1	288	gggactgaggttctcgaatga	379721	-	-	-
23605	SH3YL1	NM_015677.1	825	aagatattcggacttatgacatt	354966	-	-	-
23606	SIP	NM_014412.1	733	atgaagcgaaacccattaataagc	340557	-	see also 5666 line	-
23607	SIPL	NM_018269.1	548	cgggcagtagctgaatttctgg	369600	-	-	-
23608	SITPEC	NM_016581.2	1097	ctgggacaactacagagttgaca	358225	-	-	-
23609	SLA2-B	NM_015065.1	5625	atgggtacagtcgaagattcaga	347715	-	see also 6219 line	-
23610	SLAMF9	NM_033438.1	743	atgcagatccttaactatgctct	404002	-	-	-
23611	SLC16A10	NM_018593.2	1213	tggccgggattgcagattatgac	372294	-	-	-
23612	SLC16A11	NM_153357.1	791	aggcaccctctcggttactct	423043	-	-	-
23613	SLC27A1	NM_198580.1	979	cagtcgtctcgcgaagaatttc	439733	-	-	-
23614	SLC35A4	NM_080670.2	1553	cagcatcacagccctcttctgg	406627	-	-	-
23615	SLC35B3	NM_015948.2	1186	ttgacatgcactagtgagtagg	355583	-	see also 6587 line	-
23616	SLC35E1	NM_024881.3	998	tgggggtctctctctatacaag	391640	-	-	-
23617	SLC35E3	NM_018656.1	585	cagctcacgtctgattcctataac	372380	-	-	-
23618	SLC35F3	NM_173508.1	533	gggcgaactcaagaagattctc	425207	-	see also 10075 line	-
23619	SLC35F5	NM_025181.2	1351	aggcgttctactgtgtaaacctgg	394277	-	-	-
23620	SLC36A2	NM_181776.1	131	gggagccgtgcccatacaattgg	433163	-	-	-
23621	SLC36A3	NM_181774.1	356	ctggactatcgtatgatgcaaat	433126	-	-	-
23622	SLC37A2	NM_198277.1	1463	ttgocggtagtatcaagaaga	437454	-	-	-
23623	SLC43A1	NM_003627.3	1311	gggagggggtgtacacaaatoc	331806	-	-	prostate cancer(前立腺癌)
23624	SLC4A9	NM_031467.1	1155	gtgcttctcggcgcgtactctaca	397152	-	-	-
23625	SLC1	NM_153337.1	233	aggacctgacggcacttagaca	422784	-	-	-

図 46 (続き)

705

23626	SMC4L1	NM_005496.2	1006	tgggttggaacgagcctaataaagac	333942	-	see also 3826 line
23627	SMCR5	NM_144774.1	453	atgcgaagaggtgtttaagagataaa	411900	-	-
23628	SMCR7	NM_139182.2	323	ctggccgtgaagcgggttcattga	409359	-	-
23629	SMCR8	NM_144775.1	2361	tggctagccggagacacagtaag	411934	-	-
23630	SMT3H1	NM_006936.1	116	ggagggtggaagacagagagaatga	336618	-	-
23631	SMU-1	NM_018225.1	71	cagccttatatagcagtaactga	368586	-	-
23632	SMYD2	NM_020197.1	774	atgaaccgggttaagagattcttat	376085	-	-
23633	SMYD3	NM_022743.1	382	caggcaactcgttaagacatttc	383834	-	see also 8451 line
23634	SNIP1	NM_024700.2	977	cagcactcgggtcttcaatatcg	389407	-	-
23635	SOAT	NM_197965.1	917	cagcatatcagacgtacacagagg	436940	-	-
23636	SOC	NM_145345.1	150	aggcaggaataccgcacatctatgg	414431	-	-
23637	SOM	NM_021180.2	1109	gtgttcacggcgtaaactgtct	380654	-	-
23638	SOSTDC1	NM_015484.1	316	cagcaacagcacgcgttgatcaag	353320	-	-
23639	SP192	NM_021639.3	1830	cagtcacatctctgttaccacac	380991	-	see also 8159 line
23640	SPACA1	NM_030960.2	282	cagcagagaccgcggagaactacg	395691	-	-
23641	SPAG5	NM_006461.1	2594	aggacacactgtagagaaactaacg	335635	-	cell cycle
23642	SPATA1	NM_022354.1	619	tagatgagcggcagacataaat	382653	-	-
23643	SPATA11	NM_032306.2	892	gggctcagcccggttatgactct	399614	-	-
23644	SPATA12	NM_181727.1	1150	gggtgcagccggttcaaaccaact	433058	-	-
23645	SPATA6	NM_019073.1	355	gtgtcccgagcagcagtagatcc	374929	-	see also 7694 line
23646	SPATA7	NM_018418.1	1325	acgactgttcgagcgacataaa	371327	-	-
23647	SPATA9	NM_031982.1	454	ggcggaggaaccccatatataa	397478	-	-
23648	SPATS1	NM_145026.2	959	aggcacaatcatatataacc	412855	-	-
23649	SPATS2	NM_023071.1	1147	acggtatcgaggttgtagtaag	385060	-	-
23650	SPG20	NM_015087.3	806	gggttagtgccactcgtctatcc	347993	-	see also 6226 line
23651	SPG6	NM_144599.2	1488	caggctccgctgctgctgattac	410209	-	-
23652	SPON1	NM_006108.1	1133	gtggacagaacccgcccattaat	334801	-	-
23653	SPRED1	NM_152594.1	1300	aagttcgtctcgatgtaggc	418582	-	see also 9890 line
23654	SPRED2	NM_181784.1	310	cagtcgctgctggggtctgtaag	433300	-	signal transduction
23655	SPRR3	NM_005416.1	527	ggcagaggtgcccatacaagttcc	333755	-	structural molecule
23656	SPRR4	NM_173080.1	145	cagcaacccctgtaaatgca	424599	-	-
23657	SPUF	NM_013349.3	182	aggaaagatcacccatctacttg	338809	-	-
23658	SPY1	NM_182756.1	987	ctgtcaatggacataataggatga	435006	-	-
23659	SR-A1	NM_021228.1	2588	gggtccatggcggtcaaatca	380871	-	-
23660	SRRM2	NM_016333.2	6354	aagtcgctcaccaactgctatcc	357192	-	see also 6815 line
23661	SSI1L2	NM_016305.1	131	ggcacaagcgggaagcaatcaag	356932	-	renal cell carcinoma(腎臓癌)
23662	SSTK-IP	NM_144627.1	366	atggagggcgccacactagtcaccc	410510	-	-
23663	SSTR4	NM_001052.1	1021	ggaggagcccttgagctactatgc	330140	-	gpcr
23664	SSX2IP	NM_014021.1	828	aagtcgagctactcagtaatac	339230	-	receptor activity
23665	SSX6	NM_173357.2	352	cagacactcagaggaatgattct	424819	-	-
23666	ST5	NM_005418.2	2763	ggcgaagctcacgaatcttttg	333778	-	see also 3786 line
23667	ST7	NM_018412.2	663	aggacagagcgtcttactact	371258	-	see also 7450 line
23668	STAG2	NM_006603.3	756	gtgttagtacggcgaatgcaata	335845	-	see also 4654 line

図46 (続き)

23669	STARD10	NM_006645.1	895	atggcgcctgattacaatcat	336031	-	see also 4698 line
23670	STARD7	NM_020151.2	1477	tggccctgctcgattgagtag	375722	-	see also 7769 line
23671	STARS	NM_139166.2	879	atgccaccgccctacacaaagg	409375	-	-
23672	STATIP1	NM_018255.1	1911	gagatcgaaactgctgaattgg	369219	-	-
23673	STEPP	NM_152990.2	70	atggtcgagagagcttcaaca	421691	-	-
23674	STI2	NM_145755.1	2437	caagaattggcgacgcttatgga	414897	-	-
23675	STK11IP	NM_052902.1	447	atgcccctcgagagcatctactcc	405143	-	-
23676	STK22B	NM_053006.3	368	ctgacggacggatctacatc	405774	-	kinase_related
23677	STRAIT11					-	-
23677	499	NM_021242.3	895	tcgctctttaacggcaatgaatcg	380880	-	see also 8143 line
23678	STRC	NM_153700.2	243	ccgctcacggctctttacattcc	423664	-	see also 10008 line
23679	STX1B2	NM_052874.1	682	ccgcgagctgcacatatgttg	404573	-	-
23680	STXBP4	NM_178509.3	599	cagtaactgtgggttgcttaata	430961	-	-
23681	STXBP5	NM_139244.2	723	ttggtcgtccagagagtagaatgt	409465	-	-
23682	STXBP6	NM_014178.5	458	gaggtcaaggcggatatttaact	339891	-	-
23683	SUHW1	NM_080740.1	319	gagggcgagtcgacagatagtc	406692	-	transcription_regulat
23684	SULT1C2	NM_006588.2	1103	atggcaactattcatcgattcc	335833	-	or
23685	SUMF1	NM_182760.2	274	gcggcaactcgcgcactcaaga	435118	-	sulfotransferase
23686	SVH	NM_031905.2	630	cagcctgaagacttaactgatgg	397245	-	-
23687	SVAP1	NM_032796.2	561	tggcgtcaatttaattcgact	401532	-	-
23688	SYCP3	NM_153694.2	127	ctgtgggaagatcaagttaacaga	423552	-	-
23689	SYN1	NM_006950.2	604	tgttgattctctgtgatatagg	336824	-	see also 4865 line
23690	SYNCOIL1	NM_030786.1	428	aagaacgccagagcgagtaaga	394995	-	-
23691	SYNE1	NM_015293.1	7894	agggaggaaccgactgattcagc	351285	-	-
23692	SYNE2	NM_015180.3	20312	gtgtcggagggaaactaatgcaac	349444	-	see also 6270 line
23693	SYNPO	NM_007286.3	2778	ctggcgcgaaacatcatcaatgc	337410	-	-
23694	SYNPO2L	NM_024875.1	382	cagctcaccatcaatctgact	391613	-	see also 8800 line
23695	SYT10	NM_198992.1	1520	atgtggaaggtcgagagattaaa	440375	-	see also 10352 line
23696	SYT5	NM_003180.1	1007	cagacgcgtgaaccctcacttgg	331241	-	transporter
23697	SYTL2	NM_032379.2	1431	ctgctaagggggaagtcattaaa	400089	-	see also 9177 line
23698	T1	NM_031466.3	2955	tagaagtcgagccgtctgtattt	397140	-	-
23699	T2BP	NM_052864.2	628	atggtcagattcggagagatca	404505	-	-
23700	T3JAM	NM_025228.1	1384	ggagacctgtcgaacttggtatcc	394478	-	see also 8885 line
23701	TA-LRRP	NM_015350.1	633	gtggagactctctgtgtattaca	351757	-	-
23702	TA-	NM_032721.2	696	gtgtaccggcgtcttgacattcg	401254	-	-
23703	TAB3	NM_152787.2	1100	atgcacataccctaggtatagac	421238	-	-
23704	TAFIL	NM_153809.1	601	agggaccaagatgctattactgt	423896	-	transcription_regulat
23705	TAF7L	NM_024885.1	832	aagtaccctgtgggaagtcattg	391705	-	or
23706	TAF2A	NM_178539.2	1166	acgcgagctgctccatcatgtgt	431152	-	-
23707	TAGAP	NM_054114.3	401	atgtcaatcagaggggtgatca	406065	-	-
23708	TAPBP-R	NM_018009.3	428	aagatgacccacattattcttt	365242	-	receptor_activity

図46 (続き)

23709	TARSH	NM_015429.2	1743	aagtgccccagcgtgtactgc	352696	-	see also 6413 line
23710	TBC1D4	NM_014832.1	2239	ccgaactccccgcagttcgaaga	344344	-	see also 6041 line
23711	TBC1D5	NM_014744.1	2274	caaggacatgcacgaactgttagc	342936	-	see also 5940 line
23712	TBC1D7	NM_016495.2	530	aagatagtgctgactgttactgg	357889	-	-
23713	TBL1Y	NM_033284.1	1332	gggcacagcgtcccaagaataaa	403658	-	transcription_regulat
23714	TBN	NM_138572.1	330	gtgacactctccgtcttatgc	408488	-	or
23715	TCBA1	NM_153355.2	504	cagaagaccatcgctacatcacg	423027	-	-
23716	TCB3L	NM_016427.1	840	ttggcactccctactttgatca	357436	-	transcription_regulat
23717	TCERG1L	NM_174937.1	605	ctggactcaacgtggatacatcc	428735	-	or
23718	TCIE3	NM_174910.1	606	cagctgggtcgagctaaacacg	428646	-	-
23719	TD-60	NM_018715.1	1123	ccgggacacagcggagatagatagc	372826	-	-
23720	TEAD1	NM_021961.2	1221	gtggacattcgtcagattatga	381654	-	-
23721	TEB4	NM_005885.2	2835	gggtcaagactcgtgaactaag	334438	-	see also 8217 line
23722	TECTB	NM_058222.1	968	tggggatttggccgtgttag	406244	-	see also 4093 line
23723	TES	NM_015641.2	1298	cagcgggtgacctatacaaat	354846	-	see also 9502 line
23724	TESSP1	NM_183379.1	135	ctgcggccacccgggaaattcacg	435824	-	-
23725	TESSP2	NM_182702.1	395	tgggagatcggaggtctataat	434883	-	-
23726	TEX11	NM_031276.1	1249	atgccctacaattggctactattat	396324	-	-
23727	TEX13A	NM_031274.2	918	cggctgaacacagccacatcttat	396264	-	-
23728	TEX13B	NM_031273.1	760	cagccctcgggagctattgttagc	396259	-	-
23729	TEX15	NM_031271.2	550	ggatccgtaataccttatatacaa	396025	-	see also 8996 line
23730	TEX261	NM_144582.1	345	atgctgctcccaattattcaacc	409973	-	-
23731	TFB2M	NM_022366.1	210	aagcggcgacgcgaagcatttg	382668	-	-
23732	TFB2T	NM_013342.1	358	gcgttgctccctcatttggtag	338776	-	-
23733	TGM6	NM_198994.1	937	acgggtcgtgtccaaactcaact	440394	-	-
23734	TGS	NM_173083.2	1883	ttgtcggcatgcgaattcctca	424763	-	see also 10061 line
23735	TH1L	NM_016397.2	1537	ctgagtcgaggttatgtacttcc	357361	-	see also 6847 line
23736	THAP10	NM_020147.2	558	ctgcagcttcacagattactgt	375692	-	-
23737	THAP4	NM_015963.3	717	aggatctggggcgtgcgaattta	355642	-	-
23738	THAP9	NM_024672.2	162	tggtacagggtctgtaactcgtgt	388830	-	-
23739	THOC3	NM_032361.1	913	gcgtcagcatcggagatcatatt	399991	-	see also 9174 line
23740	THSD1	NM_018676.2	523	ctggtgactactgtgttcacaaatg	372496	-	-
23741	THSD2	NM_032784.2	379	atgcatcctaactgttagtcaagg	401491	-	see also 9282 line
23742	THY28	NM_014174.2	978	ttgtcggatgatgaaacgtttc	339857	-	see also 5524 line
23743	TIC	NM_012455.1	982	ggggacgcgcgtcgtatcaatgtg	338222	-	-
23744	TIGA1	NM_053000.1	560	cggggagcctcgtcgtattgtgt	405592	-	-
23745	TIGD2	NM_145715.1	1677	agggagccttggaccataataag	414757	-	-
23746	TIGD3	NM_145719.1	530	ccgctggaaacgcggaaacacg	414763	-	-
23747	TIP120A	NM_018448.2	3113	gtgtggcccttaaacattatgt	371671	-	transcription_regulat
23748	TJP1	NM_003257.2	1263	atgaacggctacgtctattgaat	331326	-	or
23749	TJP3	NM_014428.1	2785	aagtttatgcgagatcatatgc	340658	-	see also 2201 line

708

図 46 (続き)

23750	TJP4	NM_080604.1	1518	cagccagcaccctaaactca	406399	-	-	-
23751	TLK2	NM_006852.1	1985	aggtgctggactatttggtatt	336481	-	see also 4796 line	-
23752	TM4SF10	NM_031442.2	574	ggagctctgaaggcggttttatata	397013	-	see also 9030 line	-
23753	TMC3	NM_181841.1	365	ttgctctctcgcctgaacttt	433744	-	-	-
23754	TMC4	NM_144686.1	495	ccggcacaggagctctactctcc	411309	-	-	-
23755	TMC5	NM_024780.3	2160	tgatcagacaccctaaagtaaacg	390615	-	see also 8744 line	-
23756	TMC7	NM_024847.2	498	gaggacatccgcagcatagagg	391370	-	see also 8783 line	-
23757	TMEM13	NM_181744.1	382	ctgtcagcctggatcgatatttg	433073	-	see also 10251 line	-
23758	TMEM16C	NM_031418.1	1214	atgacggatctcgtctcattaat	396771	-	-	-
23759	TMEM16D	NM_178826.2	1870	gtggcggttaactcaggaaataact	431824	-	see also 10214 line	-
23760	TMPIT	NM_031925.1	247	tgccctcgcctgaagaaatgc	397386	-	-	-
23761	TNIP2	NM_024309.2	331	aggctgactgagcagactagaaga	386216	-	-	-
23762	TNIP3	NM_024873.2	850	tcggatcgagagagacttaactca	391603	-	-	-
23763	TNRC5	NM_006586.2	661	tcggacttcgggttaactgaaggt	335814	-	-	-
23764	TNT	NM_182831.1	482	cagagcagcgagagctcatttc	435373	-	-	-
23765	TOR2A	NM_130459.1	559	gggtggtatcacggggaccaattac	406915	-	-	-
23766	TOR3A	NM_022371.2	866	caggggcgataataatcaatgagg	382742	-	-	-
23767	TP53INP1	NM_033285.2	674	aggtggattaaaccactatcaagg	403670	-	see also 9396 line	-
23768	TP53TG3	NM_016212.1	318	atgttcgaagtttgataccttgc	351860	-	-	-
23769	TRAG3	NM_004909.1	218	aggaattctaccacagactaac	333243	-	-	-
23770	TRALPUS	NM_053002.2	2211	ccagcgacaactcctctctatgg	405665	-	see also 9475 line	-
23771	TRAP25	NM_080651.1	415	cagtcgagcaacttattccatat	406516	-	receptor activity, transcription_regulat or,	-
23772	TRAPC6	NM_177452.2	435	ttgactactcgtgtattcaagaac	429873	-	-	receptor
23773	TREM4	NM_145273.2	298	aggagctctcgtcattgtgac	414076	-	receptor activity	-
23774	TREML1	NM_178174.2	262	cgggcaggcgtacgtttctcaca	430605	-	-	-
23775	TRF3	NM_199047.1	191	ttgtacctatgatatacata	440613	-	-	-
23776	TRIF	NM_014261.1	579	cagagccactccaaactttctgt	339992	-	receptor activity, kinase related	-
23777	TRIK	NM_181840.1	266	aggtgaagcctcagtggtttaac	433725	-	channel	-
23778	TRIP	NM_005879.2	1096	cagctcccgatggttactacg	334338	-	-	-
23779	TRIPIN	NM_152524.1	549	ttgatgcgtcttcatttgaag	417578	-	-	-
23780	TSARG1	NM_139073.2	400	aggaagcagggcctctgattcg	409327	-	-	-
23781	TSARG2	NM_144644.2	716	atgctgaccatgaacttaaacg	410698	-	-	-
23782	TSARG6	NM_153614.2	778	cgggactactcgcaattcagagg	423401	-	-	-
23783	TSGA13	NM_052933.2	1128	cagcgagtgaaaggccaatttc	405389	-	-	-
23784	TSGA14	NM_018718.1	570	ctgctagatgtcgtgatagaga	372906	-	-	-
23785	TSL12	NM_145296.1	919	ttgcgagcgctccaataagcag	414262	-	-	-
23786	TSLP	NM_033035.2	468	ggcgctcctcgcgcaagaatg	402665	-	-	-
23787	TSLRP	NM_012472.3	1144	aagtgaacccgatagtagttct	338269	-	see also 5348 line	-
23788	TSNAXIP1	NM_018430.1	1501	aagcgagtgagatgtgtatgt	371357	-	-	-
23789	TSP-NY	NM_032573.2	884	aagttgcctcagcatgaattgc	400787	-	-	-
23790	TSRC1	NM_019032.2	1902	cgggaccgtcttctcgataacc	374570	-	-	-

709

図46 (続き)

23791	TSSC1	NM_003310.1	886	cagctcggagacgactgtaagg	331505	-	-	-
23792	TSSC4	NM_005706.2	1116	gagaccacttcggaacaagagc	334180	-	-	-
23793	TTCl1	NM_016088.1	515	ttgctgtcgaagtccaatcc	356180	-	-	-
23794	TTCl3	NM_024525.2	1969	aagaactttcttcgattgaag	386690	-	-	-
23795	TTCl5	NM_016030.5	1903	aggcgtatcattcgggtatcaag	356029	-	-	-
23796	TTCl4	NM_004623.2	167	gagagcgccatcagaatgac	332629	-	-	-
23797	TTCl5	NM_138376.1	529	cagtccgcaagcctaagtag	407799	-	-	-
23798	TTCl8	NM_144596.1	341	caggccgttaggccaatcacaca	410133	-	-	-
23799	TTFl	NM_007344.2	1907	aggtatagcgaagagatactga	337440	-	-	-
23800	TTY7	NM_031926.1	732	cgggtttctctccacttacaga	397394	-	-	-
23801	TTYH2	NM_032646.4	1586	aggactacgggaatcagttcc	401178	-	-	-
23802	TU12B1-					-	-	-
23802	TY	NM_016575.1	309	atgtacacggcgagcagttaatg	358193	-	-	-
23803	TUWD12	NM_172240.1	128	cgttctggagcgttattcaca	424306	-	-	-
23804	UBAP1	NM_016525.3	888	tgaacggcgcaacctagattc	358029	-	-	-
23805	UBAP2	NM_018449.2	2344	cagcgacctccgtctcaagttcc	371754	-	-	-
23806	UBE4B	NM_006048.2	1595	gtgttgcacggagttggaatag	334702	-	-	-
23807	UBN1	NM_016936.2	2157	gagcagagggaccggattgttc	358787	-	-	-
23808	UBPH	NM_019116.1	1324	ctgtccggcgtgtacaataaatc	375287	-	-	-
23809	UBQLN1	NM_013438.2	1756	tggaggtcttcgggaactaatg	338944	-	-	-
23810	UBQLN2	NM_013444.2	1466	ctgaatgacccgctgtttactgc	338962	-	-	-
23811	UBXD1	NM_025241.1	446	ctgtgcctggcgtgtactacc	394514	-	-	-
23812	UBXD2	NM_014607.2	1304	aagcgcttcgggtgtactgttc	341013	-	-	-
23813	UNC93A	NM_018974.2	537	ttgatctcatcgtgtgtatttgg	373917	-	-	-
23814	UNC93B1	NM_030930.1	789	ctgaaccacacgctgtacaatgt	395542	-	-	-
23815	UNQ1912	NM_198507.1	661	acgtgtttgatgccaatcatcc	438794	-	-	-
23816	UNQ2446	NM_198443.1	146	ccgatgtgacaccatataccagg	437792	-	-	-
23817	UNQ2492	NM_198585.1	244	aggcctcacggcactcattctcc	439836	-	-	-
23818	UNQ3030	NM_198585.1	1710	gggaatctcaggagacttagatct	439604	-	-	-
23819	UNQ3033	NM_198481.1	730	aggctgcagagcagatttatcc	438476	-	-	-
23820	UNQ470	NM_198573.1	271	acgttgactctctctgtaatcc	439717	-	-	-
23821	UNQ473	NM_198477.1	299	atgtgagtgcaagattgttcc	438439	-	-	-
23822	UNQ564	NM_198474.1	873	gggtaggccggagcattgtttac	438426	-	-	-
23823	UNQ6369	NM_198510.1	3910	ctgtgtgaagcgcctctcatgaga	438835	-	-	-
23824	UNQ698	NM_198538.1	750	cagtcaaacacgccttctaatcaac	439299	-	-	-
23825	UNQ8193	NM_198450.1	127	cagagcagctcccatataact	437835	-	-	-
23826	UNQ9366	NM_198444.1	1502	gggaacacgacgggactatcaac	437808	-	-	-
23827	UNQ9391	NM_198484.1	719	gtccgggatacaagaatggagc	438081	-	-	-
23828	UNRIP	NM_007178.2	485	gggtgcaacactgtaataagatg	337013	-	-	-
23829	UPK3B	NM_030570.2	481	gtccctacacacacacagataac	394673	-	-	-
23830	URB	NM_178274.2	310	tggaggtctcgcggaattgaga	430643	-	-	-
23831	URG4	NM_017920.2	1958	ctgctctggagcctaatcgtatgg	363975	-	-	-
23832	URP	NM_198152.1	332	ggagactctatctgtatagtg	437154	-	-	-

710

図 46 (続き)

23833	USH1G	NM_173477.2	1085	caggccacgactccctgtttacc	424946	-	-	-
23834	VCP135	NM_025054.3	3306	ctgagcaacttcataagctaact	393328	-	see also 8835 line	-
23835	VEST1	NM_052988.1	1871	aaggtcagtagagcatocaaagt	405538	-	-	-
23836	VGLL2	NM_153453.1	209	gagctgtctgagtgattgtacc	423272	-	transcription_regulat or	-
23837	VIT	NM_053276.2	442	atggcactgacggtatgcatcc	405941	-	-	-
23838	VMP1	NM_030938.2	375	gtgcttatagctacgtattatgt	395601	-	see also 8971 line	-
23839	VprBP	NM_014703.1	4054	cagttatcggtggtgtcaatca	342556	-	-	-
23840	VPS52	NM_022553.3	947	gtgacgaagatccgagaggtttat	383559	-	-	-
23841	VR22	NM_013266.1	1301	cagctccgaagctattataga	338521	-	-	-
23842	WAC	NM_016628.2	247	atgttgcgagatctctagatgcc	358622	-	-	-
23843	WBP2	NM_012478.2	68	gaggagtgatgtcotaacacc	338281	-	see also 5354 line	-
23844	WBSOR20	NM_018044.2	244	ctggccaaggtgctagtgtatga	365766	-	-	-
23845	WBSOR28	NM_182504.2	435	atgtctgcacggcctgtgttgg	433992	-	-	-
23846	WDR10	NM_018262.2	2796	atgcagtcctctgatatactca	369397	-	see also 7347 line	-
23847	WDR12	NM_018256.2	874	atggaggagtcacaaatcgacc	369264	-	-	-
23848	WDR17	NM_170710.2	349	cagttggatcccgcttataatga	423970	-	see also 10024 line	-
23849	WDR18	NM_024100.2	63	ctgcacgtgtgggaacttcaact	386028	-	-	-
23850	WDR20	NM_144574.2	1011	aaggtgaacctatggagtttagt	409878	-	see also 9702 line	-
23851	WDR7	NM_015285.1	477	ctggattagctccatgagtatta	351018	-	-	-
23852	WDR8	NM_017818.2	806	tggaaagggtgctgctcttaact	362726	-	-	-
23853	WFDG10B	NM_172131.2	185	aagcgaccacgacatagatctatg	424206	-	-	-
23854	WFDG11	NM_147197.2	437	togaacacagtgaggattactaa	415102	-	-	-
23855	WFDG13	NM_172005.1	181	aagcagcgtgtctgaagtatat	424201	-	-	-
23856	WFDG6	NM_080827.1	304	cagaaaggctcagccttactttat	406794	-	-	-
23857	WFDG9	NM_147198.2	459	gagcccttaaatcaatgctaaa	415111	-	-	-
23858	WINS1	NM_018148.3	1249	tagagcagcaagcttattataa	367709	-	-	-
23859	WIRE	NM_133284.2	394	gggctctcaggatgatacaga	407162	-	see also 9562 line	-
23860	WTAP	NM_004906.3	250	aaggttgctgagtggaacaga	333213	-	-	-
23861	WWP2	NM_007014.3	1020	ctgcccacacgacgctgtctatta	336753	-	see also 4892 line	-
23862	XAGE-5	NM_130775.1	69	gagttgcgaggagaagatata	406925	-	-	-
23863	XPO5	NM_020750.1	1213	ctgtcccgatgctcttctatt	378485	-	see also 7939 line	-
23864	XTP2	NM_015172.2	4920	cagaatcgacgtggcaacaatgg	348823	-	-	-
23865	XTP3TPB	NM_015701.2	1482	gagcctaactctgctaataat	355185	-	see also 6537 line	-
23866	XTP7	NM_138568.2	342	cagcgtgtggagcgattccatga	408447	-	-	-
23867	YPEL1	NM_013313.3	547	atgcggttgcgacatctactgc	338701	-	-	-
23868	Z39IG	NM_007268.1	574	tggataagcaaacagactataa	337371	-	-	-
23869	ZA20D1	NM_020205.1	2508	gggtgctgattctctatgcaat	376154	-	-	-
23870	ZAR1	NM_175619.1	1043	aggggaactaacagggttacttc	429163	-	-	-
23871	ZBTB1	NM_014950.1	2120	cagttggactgcacaatgat	346324	-	-	-
23872	ZCWC2	NM_024857.2	637	gagttacccgcttaacaataatgc	388629	-	see also 8681 line	-
23873	ZCWPW1	NM_017984.2	1526	gagccgattcaacagatctaaaca	365086	-	-	-
23874	ZDSF10	NM_033317.2	1353	cagccgactctggaggatttca	403695	-	-	-
23875	ZDHC14	NM_024630.2	1055	ctgctagtagaacggttggatcaco	388287	-	see also 8672 line	-

711

図 46 (続き)

23876	ZDHC16	NM_032327.2	1077	tagctgaaggacacataca	399761	-	see also 9163 line
23877	ZDHC21	NM_178566.2	1028	atggcattactatgttagtg	431327	-	see also 10200 line
23878	ZFP106	NM_022473.1	3135	aggcagacatgtgcacattatc	383119	-	-
23879	ZFP276	NM_152227.2	1385	aggcgtgacggcgtggaagc	415370	-	see also 9830 line
23880	ZFP42	NM_174900.1	375	gcgggtgggoccttatgtatgg	428556	-	-
23881	ZFP91	NM_053023.2	619	tgggtcaagaccgggttcattgc	405801	-	-
23882	ZFPM1	NM_153813.1	2412	cogtgcaagcgggtactactgc	423929	-	transcription_regulat
23883	ZG16	NM_152338.1	162	cgggtccaggtcaacatact	415714	-	or
23884	ZIC1	NM_003412.2	1788	acgagcgcgaagccctctcttg	331663	-	see also 2306 line
23885	ZMYND10	NM_015896.2	866	gggcagcoggtggcactactgttg	355388	-	-
23886	ZMYND12	NM_032257.3	1261	cagtcagcacaagaacaacagc	399099	-	-
23887	ZMYND15	NM_032285.1	1627	cggcctgtgtccggcatatcagc	399157	-	-
23888	ZMYND17	NM_178451.2	356	aggatggagaagacatttgcatt	430731	-	-
23889	ZMYND19	NM_138462.2	588	aagcttgtattgcttgcaattc	408292	-	-
23890	ZNF169	NM_194320.1	945	gggcgacactcaggtatatacatc	436851	-	-
23891	ZNF233	NM_181756.1	478	cagtaatacagaccctaataataa	433096	-	transcription_regulat
23892	ZNF237	NM_014242.1	666	tagtggtatcactacagaattga	339988	-	or
23893	ZNF291	NM_020843.1	257	tcgtctcagctggagataaaca	379470	-	see also 7989 line
23894	ZNF294	NM_015565.1	2301	tggctcaaaagccgatactctgg	353970	-	-
23895	ZNF313	NM_018683.3	393	aggatgaaggccaccatttaagg	372535	-	see also 7554 line
23896	ZNF364	NM_014455.1	376	gtggggcagtcggatagacaat	340678	-	see also 5679 line
23897	ZNF367	NM_153695.1	449	cagatactgtccgcgatttaata	423569	-	-
23898	ZNF407	NM_017757.1	823	ttgcattggcgtcgattactacg	361849	-	transcription_regulat
23899	ZNF410	NM_021188.1	325	cagaatgcagtcggctaattgta	380712	-	or
23900	ZNF503	NM_032772.3	2110	cggccaccggacccgtactactcc	401356	-	see also 8120 line
23901	ZNF509	NM_145291.2	1572	gtggctcaggggttttagtaacttc	414186	-	-
23902	ZNF511	NM_145806.2	686	aggcggatctacacacatagaat	414926	-	-
23903	ZNF515	NM_152629.2	2364	togactactcgggcattacagt	419165	-	transcription_regulat
23904	ZNHIT1	NM_006349.2	649	aagagactgcctcagtttgatga	335303	-	or
23905	ZNRF1	NM_032268.3	1066	cagctcgcagatgtggttcaagt	399223	-	see also 9129 line
23906	ZPBP	NM_007009.1	271	aagagtcacacagctgttatgtgt	336717	-	-
23907	ZRANB1	NM_017580.1	1340	ggaggcagatatgtctagacaat	359360	-	-
23908	ZSWIM2	NM_182521.1	783	gtgtaccgaatgcatagaatc	434108	-	-
23909	ATBF1	NM_006885.2	1573	cgcgggtgcagccatcagaatga	54	-	see also 4813 line
23910	ATBF1	NM_006885.2	8662	ttcaaatcgaactcgaagaatgt	162	-	see also 4813 line
23911	GTf2IRD1	NM_005685.2	2496	ggccgggtgtgtcccttataaa	217	-	see also 10367 line
23912	GTf2IRD1	NM_005685.2	2497	ggcgggtgtgtcccttataaac	218	-	see also 10367 line
23913	GTf2IRD1	NM_005685.2	1196	ccgtgacctaccggaagattgc	209	-	see also 10367 line
23914	HIF1A	NM_001530.2	809	aactagccgaggaagaactatga	237	-	see also 1050 line
23915	HIF1A	NM_001530.2	1362	gtccttaaacccggtgaatcttc	262	-	see also 1050 line

712

図46 (続き)

23916	ICSBP1	NM_002163.1	1254	ttccggtgtttccagatatttg	326	-	see also 1387 line
23917	ICSBP1	NM_002163.1	458	gtgcggtcgtctgaaatcgagc	319	-	see also 1387 line
23918	MYEF2	NM_016132.2	1276	accgtgtgctgactagtagc	358	-	see also 6688 line
23919	MYEF2	NM_016132.2	1557	atcgatagatcgaggattttt	372	-	see also 6688 line
23920	MYF5	NM_005593.1	533	ctgatgcatgcccggaattaac	385	-	see also 10371 line
23921	MYF5	NM_005593.1	105	accgtcccccaggagtgatttg	381	-	see also 10371 line
23922	MYOD1	NM_002478.3	241	gccacaacggagcactctatga	394	-	see also 10372 line
23923	MYOD1	NM_002478.3	240	tgcacaacggagcactctctatg	393	-	see also 10372 line
23924	NFX	NM_002501.1	900	cccttgatgacgtgttctatc	404	-	see also 1607 line
23925	NR5A2	NM_003822.2	903	cagctcaaccgagtcacataatgg	426	-	see also 2604 line
23926	PURA	NM_005859.2	725	ctccttgactgtggacaacaagc	457	-	transcription,regulat
23927	RFX1	NM_002918.2	95	ggcaacacagggcggtactagc	459	-	or
23928	RFX1	NM_002918.2	2037	gcgcacccgctggctgtacatga	465	-	see also 10374 line
23929	RFX3	NM_002919.2	527	tccgaacaacaacgtatctctac	475	-	see also 1984 line
23930	RFX3	NM_002919.2	2190	cogtctactctacgacgaatata	519	-	see also 1984 line
23931	TFAP2A	NM_003220.1	978	tacgtgtgcgaaccggaattcc	546	-	see also 2177 line
23932	TFAP2A	NM_003220.1	819	ctccggaggcggaagtctaaaaa	539	-	see also 2177 line
23933	TFAP2A	NM_003220.1	901	gacgtaaagctgcccaacgttaac	545	-	see also 2177 line
23934	TFAP4	NM_003223.1	1044	ttcaacatcccggaanaatttgg	551	-	see also 10376 line
23935	TFAP4	NM_003223.1	527	agcagacagccgagtagctcttc	550	-	see also 10376 line
23936	AATF	NM_012138.2	327	ttcctagtgtgggtagcattag	553	-	see also 10377 line
23937	AATF	NM_012138.2	1239	aagcgtttgccactttacagt	569	-	see also 10377 line
23938	ADNP	NM_015339.2	519	gtgggaaccactcaactacgaaaa	591	-	see also 6378 line
23939	ADNP	NM_015339.2	1255	gtgaatcgaactcctaataccaaa	609	-	see also 6378 line
23940	AEBP1	NM_001129.2	1267	gtggacgctctacgagaaagtca	679	-	see also 10379 line
23941	AEBP1	NM_001129.2	2701	gacgggactatacaatgaactca	688	-	see also 10379 line
23942	AFGQ31	NM_014423.1	786	ggcaagacccgtgagtcataaac	709	-	see also 5667 line
23943	AFGQ31	NM_014423.1	791	gaccgtgagtcataaacaatag	710	-	see also 5667 line
23944	AFGQ31	NM_014423.1	1322	ccccctctaaacggctattctac	718	-	see also 5667 line
23945	AHR	NM_001621.2	1735	gtctaagcacgcctgtcttata	823	-	see also 1076 line
23946	AHR	NM_001621.2	2943	ggcccggtgcatgtatcagtcg	860	-	see also 1076 line
23947	ALX3	NM_006492.1	942	ttcctagatgtgactataagt	870	-	see also 10382 line
23948	ALX3	NM_006492.1	803	ccccatgcatgtctccatattcc	868	-	see also 10382 line
23949	ALX4	NM_021926.1	559	ttcctctactacgtaaaaggagc	876	-	see also 8197 line
23950	ALX4	NM_021926.1	455	cgcgcaacccgcatcttacttgc	875	-	see also 8197 line
23951	ALX4	NM_021926.1	187	ggagaggctcgtgccttttagg	873	-	see also 8197 line
23952	AR	NM_000044.2	3628	aactgactgctgacttctgc	911	-	see also 16 line
23953	AR	NM_000044.2	3624	aaggactcgtatgtatctatgc	910	-	see also 16 line
23954	ARNT	NM_001668.2	913	tggctcaaggagatgtttatt	930	-	see also 10385 line
23955	ARNT	NM_001668.2	914	gggctcaaggagatgtttatt	931	-	see also 10385 line
23956	ARNT2	NM_014862.1	1218	tactgtcgtcatgtatcgattt	968	-	see also 6062 line
23957	ARNT2	NM_014862.1	501	caggccgagtgatttatgtct	956	-	see also 6062 line
23958	ARNTL	NM_001178.2	1399	cacggcagatagaggaaattgt	1011	-	see also 767 line

713

図46 (続き)

23959	ARNTL	NM_001178.2	1091	ctggagcagcagcttcttc	1002	-	see also 767 line
23960	ARNTL2	NM_020183.3	440	cgcgtaaactggacaaactaca	1041	-	see also 10388 line
23961	ARNTL2	NM_020183.3	1813	ttgatgccctatgtgacaatga	1082	-	see also 10388 line
23962	ARX	NM_139058.1	1576	gacagacgcgcctctagcatgc	1087	-	see also 9655 line
23963	ARX	NM_139058.1	38	ggcccgagtgcaaaagttaactc	1083	-	see also 9655 line
23964	ASCL1	NM_004316.1	708	ctgcttcggccgaactgatgc	1088	-	see also 10389 line
23965	ASCL1	NM_004316.1	884	cggccaacaagaagatgagtaag	1089	-	see also 10389 line
23966	ATF1	NM_005171.2	659	tactcgaagaagtacaactattc	1097	-	see also 10391 line
23967	ATF1	NM_005171.2	862	cagatgaccccaatgaagaaga	1101	-	see also 10391 line
23968	ATF1	NM_005171.2	320	tgtcaacagatcatctttat	1093	-	see also 10391 line
23969	ATF3	NM_001674.1	376	cctcgggggtgtccatcacaaaa	1103	-	see also 10392 line
23970	ATF3	NM_001674.1	378	ctcgggggtgtccatcacaaagc	1104	-	see also 10392 line
23971	ATF6	NM_007348.1	354	tcctcggtcagtggaactcttatt	1115	-	see also 10393 line
23972	ATF6	NM_007348.1	1038	agggttagagcgagattataagg	1129	-	see also 10393 line
23973	ATF7	NM_006856.1	1319	aagatcaaggctatttagaaag	1167	-	see also 4802 line
23974	ATOH1	NM_005172.1	908	cagcatgatggcgcaaaagaat	1176	-	see also 10395 line
23975	ATOH1	NM_005172.1	1003	cacagaagcgacggggaatttcc	1178	-	see also 10395 line
23976	ATRX	NM_000489.2	6444	tggcttcgaacacattgactatta	1275	-	see also 379 line
23977	ATRX	NM_000489.2	6443	gtggcttcgaacacattgactatt	1274	-	see also 379 line
23978	BACH1	NM_001186.1	1416	ctgagttccgtggttaggtatc	1339	-	see also 10397 line
23979	BACH1	NM_001186.1	833	gtcgtactcgggaactctagt	1324	-	see also 10397 line
23980	BAPX1	NM_001189.2	857	tgcggagacacacagagacaatc	1384	-	see also 771 line
23981	BARHL1	NM_020064.2	636	ctcatcggaactctgagtataag	1368	-	see also 10399 line
23982	BARHL1	NM_020064.2	639	atcaggaactctgagtataaagta	1369	-	see also 10399 line
23983	BARX1	NM_021570.2	841	aacgcgcgcagcagcttactagc	1374	-	see also 10400 line
23984	BARX1	NM_021570.2	673	ttccacgcgcgcagcagatagatc	1372	-	see also 10400 line
23985	BARX1	NM_021570.2	674	tcacacgcgcgcagcagatagatc	1373	-	see also 10400 line
23986	BARX2	NM_003658.3	849	acgtgatgtcccttagagatgg	1378	-	see also 10401 line
23987	BARX2	NM_003658.3	848	cacgtgatgtcccttagagatg	1377	-	see also 10401 line
23988	BATF	NM_006399.2	439	ggctctacgcaaggagatcaagc	1382	-	transcription regulat
23989	BATF	NM_006399.2	334	ggaggaggagaaaaatctattg	1381	-	or
23990	BATF	NM_006399.2	332	cagagagaggagaaaaatctgtat	1380	-	see also 23988 line
23991	BAZ1B	NM_023005.2	934	acgtagatcgcacagaaaaactc	1390	-	see also 23988 line
23992	BAZ1B	NM_023005.2	3041	gtcatgcgcaggactctctatgg	1445	-	see also 10402 line
23993	BCL6	NM_001706.2	684	cacttgcgggaagtatttaagg	1491	-	see also 1132 line
23994	BCL6	NM_001706.2	2042	aacctatctgttcacacatctgt	1501	-	see also 1132 line
23995	BCL6	NM_001706.2	529	aaccttatgtgtcaactctaga	1487	-	see also 1132 line
23996	BHLHB2	NM_003670.1	1015	aaggtatggcgcaattaaagcaag	1512	-	see also 2497 line
23997	BHLHB3	NM_030762.1	521	tgggttcacctcgggaatttcaaa	1530	-	see also 8938 line
23998	BHLHB3	NM_030762.1	244	aacggagacgacccaaggataacc	1522	-	see also 8938 line
23999	BNC	NM_001171.2	282	ccacgcctctaagtaagtaagc	1538	-	see also 1144 line
24000	BNC	NM_001171.2	2201	cacgtgggtcagcatgcatagc	1567	-	see also 1144 line
24001	BRD8	NM_006696.3	602	gtgatgttcgctctctctataga	1585	-	see also 4727 line

図46 (続き)

24002	BRD8	NM_006896.3	606	tggtagctctctctatgattct	1587	-	see also 4727 line	
24003	BRF1	NM_001519.2	907	gaccogtgcctgtattccacg	1643	-	see also 10408 line	
24004	BRF1	NM_001519.2	1188	gaccatgatgattcatgaaga	1645	-	see also 10408 line	
24005	BTAf1	NM_003972.1	2370	gccggtttactgtatcatcttt	1716	-	see also 10409 line	
24006	BTAf1	NM_003972.1	129	caggctagatgcctcttttttt	1850	-	see also 10409 line	
24007	BTAf1	NM_003972.1	537	gaggatagcagcccaacgaanaa	1663	-	see also 10409 line	
24008	BTEB1	NM_001206.1	1794	ggccagactgccttaaaagttc	1820	-	transcription_regulat	transcription factor -
24009	BTf3L1	NM_001208.1	293	tgtactcagcatcgatcataaa	1822	-	transcription_regulat	transcription factor -
24010	BTf3L1	NM_001208.1	9	aacaatcatgaacaaacaaactca	1821	-	see also 24009 line	
24011	BTG2	NM_006763.2	419	cggctccatctgcgtctgtacg	1824	-	see also 10410 line	
24012	BTG2	NM_006763.2	506	gagcagccctccaaagaactacg	1825	-	see also 10410 line	
24013	C10orf1	NM_020327.1	806	gccgacttaattcaattagctgg	1843	-	see also 10411 line	
24014	C10orf1	NM_020327.1	571	gccgagtcctccattatcacagt	1837	-	see also 10411 line	
24015	C10orf48	NM_173576.1	559	atgcaagacgctcggcttaagaat	1856	-	see also 10085 line	
24016	C10orf48	NM_173576.1	1097	cacgtattggaaggagatacaacg	1873	-	see also 10085 line	
24017	C20orf17	NM_173485.2	3529	agcgtatgcaaatctctaagttt	1922	-	see also 10413 line	
24018	C20orf17	NM_173485.2	1844	ggctaagaacacgcgtttttgatg	1895	-	see also 10413 line	
24019	CART1	NM_006982.1	189	agccctcaggtataaaacagtga	1934	-	see also 4878 line	
24020	CART1	NM_006982.1	723	agggaaacgttatggccaaataca	1947	-	see also 4878 line	
24021	CBFA2T1	NM_004349.2	1445	ggcgatctctcaccgctactaagg	1986	-	see also 2910 line	
24022	CBFA2T1	NM_004349.2	543	tacaccgacacogttaactaatg	1965	-	see also 2910 line	
24023	CBFA2T1	NM_004349.2	1161	tccaataaacggcttatctctacc	1980	-	see also 2910 line	
24024	CBFA2T2	NM_005093.2	2083	tgaatattgcgcgtactctgtgg	2028	-	see also 10416 line	
24025	CBFA2T2	NM_005093.2	1581	tgcgtgaattgcattatggaaa	2017	-	see also 10416 line	
24026	CBFA2T2	NM_005093.2	1577	acatgcgctgaattgcattatg	2016	-	see also 10416 line	
24027	CBFA2T3	NM_005187.4	1070	gcgcagacagggccaaagagaac	2033	-	see also 10417 line	
24028	CBFB	NM_001755.1	76	gcgcgagtgtagagattagtag	2035	-	see also 10418 line	
24029	CBFB	NM_001755.1	248	aacacctagccgagagtagctcg	2039	-	see also 10418 line	
24030	CBL	NM_005188.1	2291	cagagttcaagagcatgtattg	2096	-	see also 3644 line	
24031	CBL	NM_005188.1	385	tagccaccttatatttagacc	2054	-	see also 3644 line	
24032	CCRN4L	NM_012118.2	613	ccacactatcagggttatgcaat	2110	-	see also 10420 line	
24033	CCRN4L	NM_012118.2	1037	atcgctgtaccactatataaagc	2124	-	see also 10420 line	
24034	CCRN4L	NM_012118.2	398	accggtacaaagcagactctatag	2107	-	see also 10420 line	
24035	CDX1	NM_001804.1	514	ggcgtgagcagcggaagaactcg	2136	-	transcription_regulat	transcription factor -
24036	CDX1	NM_001804.1	843	ctctccaatgcctgtgaagagg	2137	-	see also 24035 line	
24037	CDX2	NM_001265.2	704	tcggcagcgaaggagaaacccagg	2138	-	see also 10421 line	
24038	CDX4	NM_005193.1	141	accggtttctgcactatatgg	2142	-	see also 10422 line	
24039	CDX4	NM_005193.1	140	caccggtttctgcactatatg	2141	-	see also 10422 line	
24040	CDX4	NM_005193.1	257	atcctgggcgtctgtacaaatg	2143	-	see also 10422 line	
24041	CEBPB	NM_005194.2	1001	agcacagcagagtagcacagtc	2153	-	see also 3653 line	
24042	CHD4	NM_001273.1	5295	tggctgtagccggcatataaa	2227	-	see also 838 line	

図46 (続き)

715

24043	CHD4	NM_001273.1	2487	gacatgtatgctgaacctatgt	2185	-	see also 838 line
24044	CHES1	NM_005197.1	1214	cagccgacgaccactatgagttt	2254	-	see also 10424 line
24045	CHES1	NM_005197.1	1825	ggatctcgctctctgtttgaataa	2257	-	see also 10424 line
24046	CHX10	NM_182894.1	482	gcgctcgcaaaatgtccaaatct	2260	-	see also 10280 line
24047	CITED1	NM_004143.2	623	tccaaccttgcgggtgaagatcg	2266	-	see also 10426 line
24048	CITED1	NM_004143.2	622	ctccaaccttgcgggtgaagatc	2265	-	see also 10426 line
24049	CITED2	NM_006079.2	942	tggggcaaaaogaggtttgattt	2275	-	see also 10427 line
24050	CITED2	NM_006079.2	941	ctggggcaaaaogaggtttattt	2274	-	see also 10427 line
24051	GLOCK	NM_004898.2	2676	cgccacccgcaacaattttaca	2344	-	see also 3398 line
24052	GLOCK	NM_004898.2	1209	cacaggggcaccaccocataatagg	2298	-	see also 3398 line
24053	GNOT7	NM_013354.4	844	ttgagatctcttgattgtttttt	2347	-	see also 10429 line
24054	GNOT8	NM_004779.4	294	gtgtggccagtaatacagaaga	2352	-	see also 10430 line
24055	GNOT8	NM_004779.4	393	gtgcgacaaattggtgaatttcg	2361	-	see also 10430 line
24056	CREB1	NM_004379.2	331	tcccaccgtaactctagtacagc	2386	-	see also 2936 line
24057	CREB1	NM_004379.2	787	gcccgggtactaccattctacagt	2400	-	see also 2936 line
24058	CREB3L1	NM_052854.1	1366	ctcccggaagctctctattctacg	2419	-	see also 9436 line
24059	CREB3L1	NM_052854.1	182	gagtcggactctcacaacatgc	2410	-	see also 9436 line
24060	CREBBP	NM_004380.1	4531	ctccgcacagccggtttaccatga	2511	-	see also 10432 line
24061	CREBBP	NM_004380.1	2202	acggaggtctcggtttacataaac	2465	-	see also 10432 line
24062	CREB12	NM_001310.2	399	gcccgaagaaagcgtgagatctc	2529	-	see also 10433 line
24063	CREB12	NM_001310.2	389	gagaaatccggagccgcgaataaag	2527	-	see also 10433 line
24064	CRX	NM_000554.2	924	gcccgtggttagcttgggaattc	2570	-	see also 10434 line
24065	CRX	NM_000554.2	925	ccccgtggttagcttgggaattca	2571	-	see also 10434 line
24066	CSDA	NM_003651.3	1030	gaccggttcatcgaaatccaact	2580	-	see also 10435 line
24067	CSDA	NM_003651.3	486	ttcaacgtcagaataggatatgg	2576	-	see also 10435 line
24068	CTCF	NM_006565.1	317	ttgtggaggagtcggaactttt	2581	-	see also 4603 line
24069	CTCF	NM_006565.1	1307	ggcatcgtctgttacaacacacc	2604	-	see also 4603 line
24070	CUTL1	NM_001913.2	139	gtccagaaagcgggttatcgaac	2624	-	see also 10437 line
24071	CUTL1	NM_001913.2	819	agctctcatcgccaatcacctcc	2636	-	see also 10437 line
24072	DLX1	NM_178120.2	510	ggcggtagagtgcgcttcaatgg	2672	-	see also 10438 line
24073	DLX1	NM_178120.2	804	ccggctggaacccttaactcttc	2673	-	see also 10438 line
24074	DLX1	NM_178120.2	279	cactactcatgcaactgtttaca	2670	-	see also 10438 line
24075	DLX2	NM_004405.2	497	ctcttcagcggcggtttccaaaag	2676	-	see also 10439 line
24076	DLX2	NM_004405.2	500	ttcagcggcggtttccaaaagact	2677	-	see also 10439 line
24077	DLX3	NM_005220.2	358	cgctcccgagcagcatctactact	2680	-	see also 3662 line
24078	DLX5	NM_005221.3	511	gcccctcgctgggattgacaca	2693	-	see also 10441 line
24079	DLX5	NM_005221.3	270	agcttatgcgcatatagctacg	2691	-	see also 10441 line
24080	DMRT1	NM_021951.1	793	agccgtctctggttctctttac	2698	-	see also 10442 line
24081	DMRT1	NM_021951.1	1166	cagctctctattagaacaaga	2701	-	see also 10442 line
24082	DMRT2	NM_006557.3	534	ggggcttccgggaaacagaata	2702	-	see also 10443 line
24083	DMRT2	NM_006557.3	536	ggcttccgggaaacagaataat	2704	-	see also 10443 line
24084	DMRT3	NM_021240.2	1172	aagccagctcgagcccttttgc	2743	-	see also 8142 line
24085	DMRT3	NM_021240.2	478	agctcgcccaagccagattgact	2732	-	see also 8142 line
24086	DMRT3	NM_021240.2	516	gacggcaagtcggcagacaatac	2733	-	see also 8142 line

図46 (続き)

716

24087	DMRTB1	NM_033067.1	613	ccactgttcacagactttgtgc	2748	-	see also 10445 line
24088	DMRTB1	NM_033067.1	978	cactgacgcctgtttgtact	2750	-	see also 10445 line
24089	DMRTB1	NM_033067.1	184	ctccgagcgcagagatgatgg	2747	-	see also 10445 line
24090	DMRTB1	NM_033052.1	316	agcaggagcgcagctaaag	2754	-	see also 9353 line
24091	DMTF1	NM_021145.1	787	atcttaaggcacgcgaataaaa	2767	-	see also 8108 line
24092	DMTF1	NM_021145.1	2530	atgtcgagagatttgtaactgt	2831	-	see also 8108 line
24093	DRIL1	NM_005224.1	1136	caacctggggacccaatacatga	2836	-	see also 10447 line
24094	DRIL1	NM_005224.1	1138	ccttgcggaccacaatacatgaag	2837	-	see also 10447 line
24095	DSRI1	NM_004414.4	435	gagcttcaaacgcagctcagaataa	2843	-	see also 10448 line
24096	DSRI1	NM_004414.4	650	aagatgcgaccccgatcataaac	2846	-	see also 10448 line
24097	DSPI1	NM_004089.2	525	gtgagaacacccctgttgaagacc	2853	-	see also 10449 line
24098	DUX4	NM_033178.1	572	ctctcgccgaccccggaacatgc	2855	-	transcription_regulat
24099	E2F1	NM_005225.1	989	aacaaggcccgatcgatgttttc	2861	-	or
24100	E2F1	NM_005225.1	993	agcccgatcgatgtttcctgt	2862	-	see also 10450 line
24101	E2F2	NM_004091.2	632	cggacccgagggcgaagtgtgc	2866	-	see also 10450 line
24102	E2F2	NM_004091.2	1191	atcgtgtctgttggcaacttaa	2869	-	see also 10451 line
24103	E2F3	NM_001949.2	654	gtcaccgatgggtatggatt	2875	-	see also 10452 line
24104	E2F3	NM_001949.2	656	caccgatgggtatggatttg	2876	-	see also 10452 line
24105	E2F4	NM_001950.2	1220	ccggagagacacagatatattct	2910	-	see also 10453 line
24106	E2F4	NM_001950.2	101	cactccagccgcgcgaagaaga	2902	-	see also 10453 line
24107	E2F4	NM_001950.2	229	ggcgattacgcacattaccaat	2904	-	see also 10453 line
24108	E2F5	NM_001951.2	922	atctattgtagagatcatcg	2938	-	see also 1240 line
24109	E2F5	NM_001951.2	736	ttcatctaaagccgtgttttc	2932	-	see also 1240 line
24110	E2F5	NM_001951.2	544	ttcctatgaactcatgaagaca	2926	-	see also 1240 line
24111	E2F6	NM_001952.3	470	aagagacctgtttgatgtatc	2947	-	see also 10455 line
24112	E2F6	NM_001952.3	486	atgtatcgtgtgttttaact	2949	-	see also 10455 line
24113	E4F1	NM_004424.2	223	ttcaccgcttggagagatttgt	2953	-	see also 10456 line
24114	E4F1	NM_004424.2	1742	agccgtcaagtgctacaagtc	2957	-	see also 10456 line
24115	EGR1	NM_001984.2	565	cacctgaaccgcagagcttttcc	2958	-	transcription_regulat
24116	EGR1	NM_001984.2	1877	ctccagggacaattgaatttc	2959	-	or
24117	EGR3	NM_004430.2	481	ctcgttagtcattacaatcaga	2964	-	see also 24115 line
24118	EGR3	NM_004430.2	475	cagcgactcggtagtccattaca	2961	-	see also 2963 line
24119	EGR4	NM_001965.1	854	ggagctcgtttcccgtaattagg	2972	-	see also 2963 line
24120	EGR4	NM_001965.1	866	cccgtaagggagccaaagattga	2973	-	see also 10458 line
24121	EHF	NM_012153.2	945	ctcagcgagctatgagattata	2995	-	see also 5151 line
24122	EHF	NM_012153.2	765	aaccgagagggagctcactatg	2987	-	see also 5151 line
24123	EHF	NM_012153.2	943	agctcagccgagctatgagatat	2994	-	see also 5151 line
24124	ELF1	NM_172373.2	1204	accagccgctcagagattcttc	3032	-	see also 10046 line
24125	ELF1	NM_172373.2	1375	ttccggactgttcattagttaca	3043	-	see also 10046 line
24126	ELF1	NM_172373.2	1207	agccggtcagagatttctcaag	3033	-	see also 10046 line
24127	ELF2	NM_006874.1	728	accatggagcagagctttgagata	3074	-	see also 4810 line
24128	ELF2	NM_006874.1	482	aagacccagcacaatccaatttc	3063	-	see also 4810 line

図 46 (続き)

717

24129	ELF3	NM_004433.3	4232	cggcgaactgctacaaagtttg	3092	-	see also 10462 line
24130	ELF3	NM_004433.3	4081	tcggcatgaaggcgtctcaagt	3087	-	see also 10462 line
24131	ELF4	NM_001421.1	662	acgcgggaagttactcaatat	3098	-	see also 10463 line
24132	ELF4	NM_001421.1	658	gtcaaccgcggaagtctactca	3096	-	see also 10463 line
24133	ELF5	NM_001422.2	817	gaccgaaggttagtgtacaatt	3136	-	see also 994 line
24134	ELF5	NM_001422.2	812	gggtgcccgaaggttagtgtac	3135	-	see also 994 line
24135	ELK1	NM_005229.2	316	cacgggatgtgtggaattcaag	3141	-	see also 3667 line
24136	ELK3	NM_005230.1	357	gacctggaacgatgtggaattca	3145	-	see also 10466 line
24137	ELK3	NM_005230.1	672	cacgaagccgaacgaatacatcc	3150	-	see also 10466 line
24138	ELK4	NM_001973.1	551	gacctctagccgcaatgactaca	3158	-	see also 10467 line
24139	ELK4	NM_001973.1	559	gcccgaatgactacatacatct	3161	-	see also 10467 line
24140	EMX2	NM_004098.2	1473	aaggctcagattcgcaacaaaag	3175	-	see also 2765 line
24141	EN1	NM_001426.2	1748	cacggcaacccggctactctact	3185	-	see also 10468 line
24142	EN1	NM_001426.2	1720	cggagccgagggcaccacaatacc	3184	-	see also 10468 line
24143	EN2	NM_001427.2	2354	gtccagggtctcgaacacaaag	3188	-	transcription_regulat or
24144	EN2	NM_001427.2	2355	tcccagggtctcgaacacaaaga	3189	-	see also 24143 line
24145	EN2	NM_001427.2	2358	cagggtctcgaacacaaagaaga	3190	-	see also 24143 line
24146	EOMES	NM_005442.2	1404	tcggtaagggttcaatcctct	3216	-	see also 10469 line
24147	EOMES	NM_005442.2	1451	tacctaaagcccgctattataat	3219	-	see also 10469 line
24148	EP300	NM_001429.1	3447	ggctatggccctcgtatgaaca	3297	-	see also 995 line
24149	EP300	NM_001429.1	2548	cccccaacctaaagcactgttagt	3265	-	see also 995 line
24150	ERF	NM_006494.1	1556	gcccctcagctacgttttaagc	3389	-	see also 4547 line
24151	ERF	NM_006494.1	373	cctcgcctattactatacaag	3384	-	see also 4547 line
24152	ERG	NM_004449.2	378	cacgaacgagccgagagttatcg	3394	-	see also 2984 line
24153	ERG	NM_004449.2	843	aacaagtagccgccttgcaatc	3404	-	see also 2984 line
24154	ESR1	NM_000125.1	1659	tcggttccgcatgatgaatctgc	3428	-	see also 10473 line
24155	ESR1	NM_000125.1	811	aggccaaattcagataatcgacg	3419	-	see also 10473 line
24156	ESR2	NM_001437.1	881	tacgcatcgagatcatcattgg	3444	-	see also 1005 line
24157	ESR2	NM_001437.1	1809	acgtcagcgcgtcagtaacaag	3457	-	see also 1005 line
24158	ESRRA	NM_004451.3	1029	ggccttcgctgaggacttagtcc	3459	-	transcription_regulat or, steroid hormone receptor
24159	ESRRB	NM_004452.2	1312	agctggtacgcaggtacacaagaag	3473	-	see also 10475 line
24160	ESRRB	NM_004452.2	868	tcgctggagccgctcagaataac	3466	-	see also 10475 line
24161	ESRRG	NM_001438.1	1146	gacgaagaccagtcacaattagc	3494	-	see also 1006 line
24162	ESRRG	NM_001438.1	696	tgcgccttcataagtggttttaa	3485	-	see also 1006 line
24163	ESX1L	NM_153448.2	487	caccgggttcacgagtttcagc	3501	-	see also 10477 line
24164	ESX1L	NM_153448.2	515	ggactagaagaacttttogatga	3502	-	see also 10477 line
24165	ESX1L	NM_153448.2	570	gacttcagcagccgctgaatttg	3505	-	see also 10477 line
24166	ETS1	NM_005238.1	733	cccgctatactcctggattacttc	3528	-	see also 3672 line
24167	ETS1	NM_005238.1	1044	gagagctacgtagttgtgtatcg	3532	-	see also 3672 line
24168	ETS2	NM_005239.2	717	ctccgttcctcattgattataca	3543	-	see also 10479 line
24169	ETS2	NM_005239.2	1189	gagcaagcacaaccagttatacc	3548	-	see also 10479 line
24170	ETV1	NM_004956.2	1033	aagggaaggagcgtcctctatgacc	3558	-	see also 10480 line

718

図46 (続き)

24171	ETV1	NM_004956.2	623	gagcagttgtaccagactatca	3554	-	see also 10480 line
24172	ETV3	NM_005240.1	259	caggagagtagcgggaatttgt	3575	-	see also 10481 line
24173	ETV3	NM_005240.1	452	tgcacaactaccatcatcaac	3576	-	see also 10481 line
24174	ETV4	NM_001986.1	1257	gcccctcctcgcgtactattat	3594	-	see also 10482 line
24175	ETV4	NM_001986.1	1256	agccgctcgcgtcgcgtactatt	3593	-	see also 10482 line
24176	ETV4	NM_001986.1	886	cacgggtgcgcgtacatgtaac	3585	-	see also 10482 line
24177	ETV5	NM_004454.1	1544	gagagatagctacaaaatttgt	3612	-	see also 10483 line
24178	ETV5	NM_004454.1	1223	tactttgacgacacttgttgt	3609	-	see also 10483 line
24179	ETV6	NM_001987.2	331	cgctatagctctcctcctcaagg	3622	-	see also 1267 line
24180	ETV7	NM_016135.2	997	tgcgccattattataagcttaaat	3649	-	see also 10485 line
24181	ETV7	NM_016135.2	859	cgcgatagcgcctcatcaacag	3646	-	see also 10485 line
24182	EVX1	NM_001989.2	572	accgagtcggattttctatgaaga	3656	-	see also 10486 line
24183	EVX1	NM_001989.2	571	caccgagtcggattttctatgaag	3655	-	see also 10486 line
24184	FHX	NM_018416.2	1928	cccaacctcgacaactactaca	3673	-	see also 7459 line
24185	FHX	NM_018416.2	2318	ttctgactggtcgtctaatattg	3675	-	see also 7459 line
24186	FKHL18	NM_004118.3	136	tacagctacatgcccttatg	3685	-	see also 10488 line
24187	FKHL18	NM_004118.3	360	cactgactgcacacacatgttg	3686	-	see also 10488 line
24188	FLI1	NM_002017.2	1291	gaccgagtcgtccatgtacaagt	3719	-	see also 1296 line
24189	FLI1	NM_002017.2	909	gggcacaacacatcagtaagaat	3712	-	see also 1296 line
24190	FLJ12287	NM_022367.2	911	ttcgaccacagtcgtctacttct	3731	-	see also 8351 line
24191	FLJ12287	NM_022367.2	772	tgcctctctggtactatgaac	3730	-	see also 8351 line
24192	FLJ12895	NM_023926.3	1196	ctccggttggtgaaagagatcc	3748	-	see also 10491 line
24193	FLJ12895	NM_023926.3	545	cgcctgctttccgggaatttgt	3744	-	see also 10491 line
24194	FLJ12895	NM_023926.3	823	tgcgggctcctcctcaattcta	3746	-	see also 10491 line
24195	FLJ20626	NM_017908.1	911	gcctgcgtcgggaaatgagagt	3749	-	transcription regulat
24196	FLJ21616	NM_024567.1	524	ccttggcgtcacactaagtatga	3763	-	or
24197	FLJ21616	NM_024567.1	631	gacgaggagtcgatttaacttgg	3769	-	see also 8645 line
24198	FLJ23614	NM_152895.2	1305	cactcggcggtcactcttatag	3795	-	see also 10493 line
24199	FLJ23614	NM_152895.2	642	agggccacccggcgctgaactatg	3785	-	see also 10493 line
24200	FLJ25880	NM_153216.1	397	ctcgggcatactgaaagagtgc	3805	-	see also 10495 line
24201	FLJ25880	NM_153216.1	797	gtgttcgagtttggttctataa	3810	-	see also 10495 line
24202	FLJ30678	NM_144657.1	1242	accaatcattacgggagtaattt	3849	-	see also 10496 line
24203	FLJ30678	NM_144657.1	1100	gcccggaccaggagaataatgc	3842	-	see also 10496 line
24204	FLJ30678	NM_144657.1	1027	cacataccagctattcgaga	3836	-	see also 10496 line
24205	FLJ33779	NM_182572.2	751	agcaactcccgagggaagtgagt	3867	-	see also 10497 line
24206	FLJ35867	NM_152455.2	2060	gtcggagtcacacactcaataga	3890	-	see also 10498 line
24207	FLJ35867	NM_152455.2	2407	gacttaactgcacatcatagac	3896	-	see also 10498 line
24208	FLJ35936	NM_173464.1	477	cccgacatccatcggtattctgt	3899	-	see also 10499 line
24209	FLJ35936	NM_173464.1	826	ggcgaccatagacatatgttg	3909	-	see also 10499 line
24210	FMNL2	NM_052905.1	560	ttgcacactacgggtaactttt	3942	-	see also 10500 line
24211	FMNL2	NM_052905.1	2435	atcggttcattgatcgatttagt	3979	-	see also 10500 line
24212	FOSL2	NM_052523.2	1422	cacggcccggtgtcaagattag	4000	-	see also 3697 line
24213	FOXAI	NM_004496.2	1705	tccagaccctcctcaaaccttc	4009	-	see also 10502 line

24214	FOXA1	NM_004496.2	1571	acgaacaggcaactcaatactcg	4008	-	see also 10502 line
24215	FOXA2	NM_021784.3	278	ctctcctgtagcaacaatgaacg	4010	-	see also 8169 line
24216	FOXA3	NM_004497.2	650	ccttactaccggaggaatcagc	4015	-	see also 3046 line
24217	FOXA3	NM_004497.2	543	gccaaagcaccctattctctatat	4014	-	see also 3046 line
24218	FOXA3	NM_004497.2	1225	ccgctcttgcttaatgcattcc	4020	-	see also 3046 line
24219	FOXB1	NM_012182.1	620	cgctcccaacaaacgtgactacc	4022	-	transcription_regulat
24220	FOXB1	NM_012182.1	795	cgccatcccggtgcccattagc	4023	-	transcription factor -
24221	FOXB1	NM_012182.1	297	cccaagctcgaggagacatgtcg	4021	-	see also 24219 line
24222	FOXC1	NM_001453.1	1562	ctccagtagaacgggaatagtagc	4024	-	see also 10504 line
24223	FOXC1	NM_001453.1	1639	gtctacgactgtagcaagtttgg	4027	-	see also 10504 line
24224	FOXC2	NM_005251.1	1482	ctctcagactgcacgaataact	4029	-	transcription_regulat
24225	FOXC2	NM_005251.1	1367	cocacggctgggattggaac	4028	-	transcription factor -
24226	FOXD1	NM_004472.1	1769	tccagtctcagaaactttactgc	4031	-	see also 24224 line
24227	FOXD1	NM_004474.1	2188	tccaggccgacgacagacataga	4032	-	see also 10505 line
24228	FOXD3	NM_012183.1	392	ccccgagcaagcccaagaacagc	4034	-	see also 10506 line
24229	FOXD3	NM_012183.1	1086	caccacccgctgctcctcaagt	4035	-	see also 10507 line
24230	FOXJ1	NM_004473.3	929	accgagcaaccccccaaaatgg	4037	-	transcription_regulat
24231	FOXJ1	NM_004473.3	1050	ccccaaacggcgagcatgttcg	4038	-	transcription factor II
24232	FOXJ2	NM_001452.1	1377	ctcagctagcggtgctgtattac	4041	-	transcription factor thyroid agenesis(甲状腺発育不全)
24233	FOXJ2	NM_001452.1	1380	agctagcggtgctgtattatcac	4042	-	see also 10508 line
24234	FOXH1	NM_003923.1	1413	cacctctactgcctctctaca	4061	-	see also 10509 line
24235	FOXH1	NM_003923.1	1577	gggtgccaccacaaacaaagcgc	4063	-	see also 10510 line
24236	FOXJ1	NM_001454.1	698	atccacactgcagaaatcaatc	4066	-	see also 10511 line
24237	FOXJ1	NM_001454.1	639	cacctgtcggccatctacaagt	4064	-	see also 10511 line
24238	FOXJ1	NM_005250.1	42	ctgcgccatgctgtatctgtacg	4068	-	see also 10512 line
24239	FOXJ1	NM_005250.1	39	cgctcgcccatgctgtatctgt	4067	-	see also 10512 line
24240	FOXJ2	NM_023067.1	1042	ggcgtagtgaactgtaacaatgg	4071	-	transcription_regulat
24241	FOXJ1	NM_021953.1	1483	cacttagcgagaccatcaaatg	4103	-	transcription factor blepharophimosis(瞼裂縮小)
24242	FOXJ1	NM_021953.1	786	ctcttactagggccatgatcaat	4093	-	see also 10513 line
24243	FOXJ1	NM_021953.1	587	caggctgcactatacaacaatagc	4089	-	see also 10513 line
24244	FOXJ1	NM_003593.2	906	ccgctcagcgagatctacaatt	4121	-	see also 10514 line
24245	FOXJ1	NM_003593.2	767	gggtctctcaacactcagtaac	4117	-	see also 10514 line
24246	FOXJ1	NM_002015.2	2316	gtgtcaagacacagacacatagc	4162	-	see also 1293 line
24247	FOXJ1	NM_002015.2	1429	ccggcatctcgcccaaatgg	4137	-	see also 1293 line
24248	FOXJ1	NM_001455.1	2446	aacgtgactgtcgcaatgatcc	4175	-	see also 1014 line
24249	FOXJ1	NM_001455.1	2456	ttcgcaatgatccgatgtctcc	4176	-	see also 1014 line
24250	FOXJ1	NM_032682.3	1968	gtggtcctaattttagttctca	4212	-	see also 9272 line
24251	FOXJ1	NM_014491.1	1011	agggctgacctactactaaca	4226	-	see also 5707 line
24252	FOXJ1	NM_014009.2	1162	tccacaacatgactacttcaag	4248	-	see also 10519 line
24253	FOXJ1	NM_014009.2	475	tccaggacagcccaatttcatg	4246	-	see also 10519 line

図46 (続き)

720

24254	FOXP4	NM_138457.1	1923	gctatttcgcgcaaacactgc	4254	-	see also 9622 line
24255	FOXP4	NM_138457.1	1910	cacagagatgctcctattcc	4252	-	see also 9622 line
24256	FUBP1	NM_003902.2	1335	gactatgctcgaactctaga	4307	-	see also 2659 line
24257	FUBP1	NM_003902.2	1640	tgcttattacgctcactattc	4315	-	see also 2659 line
24258	G10	NM_003910.2	627	ggcattcagcagaggaactctatga	4332	-	see also 10523 line
24259	G10	NM_003910.2	626	agccatcagcagagactctatg	4331	-	see also 10523 line
24260	G10	NM_003910.2	703	agcaagatatagaaactgtgc	4335	-	see also 10523 line
24261	GABPB2	NM_002041.2	972	gggttcagcaactgcatcacata	4356	-	see also 1317 line
24262	GABPB2	NM_002041.2	552	ctgatgtcacacgaagtaaa	4344	-	see also 1317 line
24263	GAS41	NM_006530.2	491	aacagagatgggtgaattcgaaa	4380	-	see also 4564 line
24264	GAS41	NM_006530.2	494	agagatgggtgaattcgaataaa	4382	-	see also 4564 line
24265	GAS7	NM_003644.1	592	ggcggacgaagcagaagttcacc	4402	-	see also 10526 line
24266	GAS7	NM_003644.1	226	atcctcatcggcgaagcaaaaagc	4396	-	see also 10526 line
24267	GATA1	NM_002049.2	997	gaccatgcggagagtgatgttc	4415	-	see also 1322 line
24268	GATA1	NM_002049.2	1130	ggcagcggtagcgggaattgtg	4419	-	see also 1322 line
24269	GATA1	NM_002049.2	1002	tgccgaagatggtattcagact	4417	-	see also 1322 line
24270	GATA2	NM_032638.3	1522	acgggaagatgtccacaagtc	4424	-	see also 9271 line
24271	GATA2	NM_032638.3	1365	ggcggcaccctgtgtcaaatg	4421	-	see also 9271 line
24272	GATA3	NM_002051.1	1305	tcccaagaacagctcgtttaac	4429	-	see also 1324 line
24273	GATA3	NM_002051.1	284	gaggagggtggtgtgttttaa	4426	-	see also 1324 line
24274	GATA4	NM_002052.2	1447	tgccgaagagaggatocaaacc	4433	-	see also 1325 line
24275	GATA5	NM_080473.3	578	caccttgctcgaactcttgg	4435	-	see also 10529 line
24276	GATA6	NM_005257.3	1666	ttgtggaactcatagaactcc	4439	-	see also 3699 line
24277	GLI2	NM_005270.2	723	ggaggtgaggtggtgtcatctatga	4447	-	see also 10531 line
24278	GLI2	NM_005270.2	1619	cgagttcagcagctcaagaagg	4452	-	see also 10531 line
24279	GLI3	NM_000168.2	118	aagtctccactcgaacagatgt	4455	-	see also 138 line
24280	GLI3	NM_000168.2	2248	ctgaccgatggaggtagtagtg	4489	-	see also 138 line
24281	GSC	NM_173849.2	372	ctccgcctcgggtacacaaact	4518	-	transcription_regulat or
24282	GSCL	NM_005315.1	417	ggcgtcgcgagcgcttttgcgc	4519	-	transcription_regulat or
24283	GSH-2	NM_133267.1	997	ctcgactcgcgagagattgaatc	4522	-	see also 9563 line
24284	GSH1	NM_145657.1	536	agcggagttcgtcttaatatg	4526	-	see also 10534 line
24285	GSH1	NM_145657.1	537	ggcggagttcgtcttaatatgt	4527	-	see also 10534 line
24286	GTF2A2	NM_004492.1	331	acgtacagattctgcgataatgt	4534	-	see also 3043 line
24287	GTF2A2	NM_004492.1	355	tggacttttgcactgaatgatgt	4535	-	see also 3043 line
24288	GTF2H3	NM_001516.3	794	ctgtcatcgaatctcattgaaa	4564	-	see also 10536 line
24289	GTF2H3	NM_001516.3	875	tactgtcgagacagcctttaaaa	4566	-	see also 10536 line
24290	GTF2H4	NM_001517.3	263	tggaggtattggaccgattgtatg	4568	-	see also 10537 line
24291	GTF2H4	NM_001517.3	1004	gggaaatctcggcggtactacc	4576	-	see also 10537 line
24292	GTF2I	NM_001518.2	954	taggtctcgtgtgtgtgtaaca	4584	-	see also 1043 line
24293	HAND1	NM_004821.1	831	gcccagtcgagaagagattaaa	4595	-	see also 10539 line
24294	HAND1	NM_004821.1	800	cagcagcacggaaggttctctcc	4594	-	see also 10539 line
24295	HCFC1	NM_005334.1	5558	gacctccggcaagattatagagt	4631	-	see also 3716 line

図46 (続き)

24296	HCFC1	NM_005334.1	5554	ctgtgaactccggcaagattatc	4630	-	see also 3716 line
24297	HGLS1	NM_005335.3	1395	ttgtatcggagcagtaatacact	4653	-	see also 10541 line
24298	HGLS1	NM_005335.3	716	aagaagacgaagcccatagaagc	4641	-	see also 10541 line
24299	HDAC1	NM_004964.2	742	cogctccgagacgggattgatga	4668	-	see also 10542 line
24300	HDAC1	NM_004964.2	787	aagccggctcagtcctcaagtaac	4669	-	see also 10542 line
24301	HDAC2	NM_001527.1	779	atcgtgtaatacgggtatcattc	4698	-	see also 1047 line
24302	HDAC2	NM_001527.1	1018	ctggattgttcaatcaacagt	4710	-	see also 1047 line
24303	HES6	NM_018645.3	752	agcctgacacaaagcccaaatgc	4724	-	transcription_regulat
24304	HESX1	NM_003865.1	725	tgctatcctggtatcgattatag	4730	-	or
24305	HESX1	NM_003865.1	722	aactctatcctgtatcgatat	4728	-	see also 10544 line
24306	HESX1	NM_003865.1	750	aagaattagctcaaaaattgaat	4732	-	see also 10544 line
24307	HEY1	NM_012258.2	284	cgcgacgagacccggatcaataa	4741	-	see also 5239 line
24308	HEY1	NM_012258.2	998	gggacggagatcggagctttta	4752	-	see also 5239 line
24309	HEY1	NM_012258.2	285	gocgacgagacccggatcaataa	4742	-	see also 5239 line
24310	HEY2	NM_012259.1	226	ggcgtcgggagcgggataataac	4759	-	see also 5240 line
24311	HEY2	NM_012259.1	227	ggcgtgggagcgggataataaaca	4760	-	see also 5240 line
24312	HEYL	NM_014571.2	362	ttgacttcgggagcattggtttt	4769	-	see also 10547 line
24313	HEYL	NM_014571.2	364	gacttcgggagcattggttttgc	4770	-	see also 10547 line
24314	HHEX	NM_002729.2	112	caaacccgagccgcttttaccatc	4772	-	see also 10548 line
24315	HHEX	NM_002729.2	110	cgcacacccgagcccttttaca	4771	-	see also 10548 line
24316	HHEX	NM_002729.2	811	ttgagggcgataaaagctatttt	4778	-	see also 10548 line
24317	HIF3A	NM_022462.2	1083	gagtatgtgtgtccattttt	4787	-	see also 10549 line
24318	HIF3A	NM_022462.2	1497	ggcagtgagagacagatttagata	4790	-	see also 10549 line
24319	HIRA	NM_003325.3	3046	cgcacgggtacctcgttaacgaag	4844	-	see also 2255 line
24320	HIRA	NM_003325.3	256	tggaagccgagatttttcagttg	4805	-	see also 2255 line
24321	HIVEP3	NM_024503.1	2829	atgtggtgctcgtgtacaagaana	4862	-	see also 8620 line
24322	HIVEP3	NM_024503.1	2857	agccggcaatagaattaccctttg	4855	-	see also 8620 line
24323	HKR3	NM_005341.1	1026	gtcgaatgccccacatgtcataa	4918	-	see also 10552 line
24324	HKR3	NM_005341.1	1954	acgacccgggtatagaactacaac	4926	-	see also 10552 line
24325	HLX1	NM_021958.2	1245	tgccgacagctacaaaagggaag	4934	-	see also 10553 line
24326	HLX1	NM_021958.2	1117	atctatagatccatttaacgagg	4930	-	see also 10553 line
24327	HLXB9	NM_005515.2	856	ggcctaagatgcccgacttcaact	4941	-	see also 10554 line
24328	HMG20A	NM_018200.2	253	gacggttccaaggagagtaatga	4942	-	see also 7315 line
24329	HMG20A	NM_018200.2	1024	cggagccgcaacacacagctttaca	4963	-	see also 7315 line
24330	HMG20B	NM_006339.1	876	tgccggtatcacccagaagaacc	4973	-	see also 10555 line
24331	HMG20B	NM_006339.1	850	cccttgaacccggaaaagcaact	4972	-	see also 10555 line
24332	HMG20B	NM_002129.2	282	acccggactcttcctgtoatttc	4974	-	see also 10556 line
24333	HMG20B	NM_002129.2	283	cccgactcttcctgtaatttcg	4975	-	see also 10556 line
24334	HMG20B	NM_002129.2	458	aagggaaccccaatgctcttaaaag	4979	-	see also 10556 line
24335	HNF4A	NM_000457.3	612	gacatttcggcggaagaagattgc	4986	-	see also 10557 line
24336	HNF4A	NM_000457.3	352	tgccgaagaacaacacatgactcc	4983	-	see also 10557 line
24337	HOXA1	NM_005522.3	146	acccctcggaacataggattaca	4993	-	see also 3856 line
24338	HOXA1	NM_005522.3	387	cagccctacgcgttaaatcagg	5001	-	see also 3856 line

722

図46 (続き)

24339	HOXA10	NM_018951.2	1200	ggagagctcacagccaactttaat	5021	-	see also 10559 line
24340	HOXA10	NM_018951.2	1199	cggagagctcacagccaacttta	5020	-	see also 10559 line
24341	HOXA11	NM_005523.4	967	cagagaccgttacagctactact	5036	-	see also 3857 line
24342	HOXA11	NM_005523.4	424	cccgagagctctgcgaatttt	5027	-	see also 3857 line
24343	HOXA2	NM_006735.3	1315	ccctcgacagctccgtagatatt	5049	-	see also 4758 line
24344	HOXA2	NM_006735.3	1317	ctcgacagctccgtagatatttc	5050	-	see also 4758 line
24345	HOXA3	NM_030661.3	1012	ccggagccggtggctctctgaac	5057	-	see also 10560 line
24346	HOXA3	NM_030661.3	1208	agggggacaccccgactatgacc	5060	-	see also 10560 line
24347	HOXA4	NM_002141.2	657	agcgccgttaaccccgattataa	5062	-	see also 10561 line
24348	HOXA4	NM_002141.2	659	cgccgttaaccccgattataacg	5064	-	see also 10561 line
24349	HOXA5	NM_019102.2	611	caataagctatgacaacatagg	5074	-	see also 7708 line
24350	HOXA6	NM_024014.2	150	gacgtacacctcacctgttttct	5079	-	transcription_regulat
24351	HOXA7	NM_006896.2	279	gaccgttcgggctctatacatg	5083	-	transcription factor -
24352	HOXA7	NM_006896.2	375	ctgcgcctcctacgacaaaca	5085	-	see also 4827 line
24353	HOXB1	NM_002144.2	18	taggatgaactcctcttagagt	5093	-	see also 10563 line
24354	HOXB1	NM_002144.2	482	tctctcggagagcaaggaaca	5095	-	see also 10563 line
24355	HOXB13	NM_006361.2	355	agctcccgctcttatgttact	5099	-	see also 10564 line
24356	HOXB13	NM_006361.2	828	ggaggtatgcggctgaacaagttc	5102	-	see also 10564 line
24357	HOXB2	NM_002145.2	397	cccgagttcccttgatgaaga	5110	-	see also 10565 line
24358	HOXB2	NM_002145.2	229	atcaaggagtgacattatctoc	5107	-	see also 10565 line
24359	HOXB3	NM_002146.3	2123	atccaaggagcccaataaac	5117	-	see also 10566 line
24360	HOXB3	NM_002146.3	2124	tccaaggagcccaataaac	5118	-	see also 10566 line
24361	HOXB3	NM_002146.3	897	ctctctcgaggtcttctctcg	5113	-	see also 10566 line
24362	HOXB4	NM_024015.2	75	ggctatgagttctttttgatca	5119	-	see also 8557 line
24363	HOXB6	NM_018952.3	393	ggcagctaccgctctattctog	5130	-	see also 10568 line
24364	HOXB6	NM_018952.3	421	tgcggagcccgctgagacattacc	5132	-	see also 10568 line
24365	HOXB8	NM_024016.2	388	gtcgcaaatccagaggtctacc	5134	-	transcription_regulat
24366	HOXB9	NM_024017.3	542	acccgctctacgggagacaataaa	5149	-	transcription factor -
24367	HOXB9	NM_024017.3	541	gaccgctctacgggagacaataaa	5148	-	see also 8558 line
24368	HOXC10	NM_017409.2	167	gcccggagcgacgcatgtatg	5155	-	see also 8558 line
24369	HOXC10	NM_017409.2	1085	tccgggaactgacctccaattt	5161	-	see also 10570 line
24370	HOXC11	NM_014212.2	801	agcgctgccccttattcgaaattc	5169	-	see also 10571 line
24371	HOXC11	NM_014212.2	802	ggcgtgcctctattcgaaattcc	5170	-	see also 10571 line
24372	HOXC12	NM_173860.1	614	cgccctgtgaccgcatcaacagg	5174	-	see also 10123 line
24373	HOXC12	NM_173860.1	739	ctctcagaccgcttgatcttag	5175	-	see also 10123 line
24374	HOXC13	NM_017410.2	154	ggacottatgactgctatgagg	5178	-	see also 6983 line
24375	HOXC13	NM_017410.2	1012	ctctgagcgcaagtaaccatct	5179	-	see also 6983 line
24376	HOXC6	NM_004503.2	328	tggatctaatctcttttaccagg	5185	-	see also 3054 line
24377	HOXC8	NM_022658.2	629	ggcgcaatggagcgcaacttac	5194	-	see also 8424 line
24378	HOXC8	NM_022658.2	336	cgcttcgcaacgcttcgaagact	5188	-	see also 8424 line
24379	HOXC9	NM_006897.1	306	ctctcagctgcctcggtatctc	5199	-	see also 4829 line
24380	HOXC9	NM_006897.1	111	ggccatcagtaactattacgtgg	5196	-	see also 4829 line

図46 (続前)

723

24381	HOXD1	NM_024501.1	910	cagcgcgatcgcgcacgaattcca	5204	-	see also 10573 line
24382	HOXD1	NM_024501.1	1150	aaccocccactaaagttttatcaaga	5209	-	see also 10573 line
24383	HOXD10	NM_002148.2	278	tccattataccataaagtacaga	5218	-	see also 1378 line
24384	HOXD13	NM_000523.2	964	aacgagatgccattacaacaatt	5234	-	see also 10574 line
24385	HOXD13	NM_000523.2	836	aggggtcccaacttttggaatatct	5232	-	see also 10574 line
24386	HOXD3	NM_006898.4	228	cagaaggctgcttactatgaaaa	5236	-	see also 10575 line
24387	HOXD3	NM_006898.4	1444	tgcgcggaggctcccaactgaacg	5238	-	see also 10575 line
24388	HOXD3	NM_006898.4	267	ggctatggctacagcaaaactac	5237	-	see also 10575 line
24389	HOXD4	NM_014621.2	300	ccctcgtgcgagagagatttgc	5239	-	transcription_regulat or
24390	HOXD4	NM_014621.2	303	tccgtgcgaggagatttgcagg	5240	-	see also 24389 line
24391	HOXD8	NM_019558.2	1018	gogaagttttacgggtacagataa	5242	-	see also 10576 line
24392	HOXD8	NM_019558.2	1078	gccgagctgggtacaatatcctga	5246	-	see also 10576 line
24393	HOXD9	NM_014213.2	467	tactacgtggaactcgcttatagg	5255	-	see also 5537 line
24394	HOZFP	NM_152995.3	1329	accgaggccctgtgaacatgt	5288	-	see also 10577 line
24395	HOZFP	NM_152995.3	1521	gacggactttagagcttagaagaa	5300	-	see also 10577 line
24396	HR	NM_005144.2	3767	ggcttctacgcggtcaaaactct	5326	-	see also 10578 line
24397	HR	NM_005144.2	2087	cagcaaggggcttttactacaagg	5317	-	see also 10578 line
24398	HSF1	NM_005526.1	1137	cccgagcccccctcctgactcc	5332	-	see also 10579 line
24399	HSF1	NM_005526.1	1312	cagtgaccocacttgatgctatgg	5333	-	see also 10579 line
24400	HSF2	NM_004506.2	1470	ctgttgacaaggcggagtacaaca	5363	-	see also 3063 line
24401	HSF2	NM_004506.2	563	aaggagggtgcagaattacgagc	5347	-	see also 3063 line
24402	HSFY	NM_033108.1	131	tcccccagaagtaattaactgc	5365	-	see also 10581 line
24403	HSRNAFE V	NM_017521.1	607	agccctgctgatcaacatgtac	5383	-	see also 10582 line
24404	V	NM_017521.1	608	gccccctgctgatacaacatgtacc	5384	-	see also 10582 line
24405	HTLF	NM_002158.2	574	aagcccccatcactccttagtct	5399	-	see also 10583 line
24406	HTLF	NM_002158.2	1081	ccaagtctgtctgaagtacaaga	5412	-	see also 10583 line
24407	ILF1	NM_004514.2	519	gggcaagaacgggggtattcgtgg	5423	-	see also 10584 line
24408	ILF1	NM_004514.2	1006	ctcaccctgaacgggattttatc	5433	-	see also 10584 line
24409	ILF1	NM_002029.1	192	ccccctgctgcgtgtacatgg	5447	-	see also 10585 line
24410	IRF1	NM_002198.1	926	gtcggagtggtgcagccaacaacg	5457	-	see also 1402 line
24411	IRF1	NM_002198.1	229	ggctagagatgacgatttaattcc	5451	-	see also 1402 line
24412	IRF2	NM_002199.2	650	atgcgggtcctgcacttcaactata	5466	-	see also 10587 line
24413	IRF2	NM_002199.2	420	cgatgcgcccatgaattccttgc	5462	-	see also 10587 line
24414	IRF3	NM_001571.1	345	ctcagaccaccaataaatctac	5478	-	see also 10588 line
24415	IRF3	NM_001571.1	342	accctcacgaocacataaaaatc	5477	-	see also 10588 line
24416	IRF3	NM_001571.1	341	ggacctcacgacccacataaaat	5476	-	see also 10588 line
24417	IRF4	NM_002460.1	1435	atcgcgcatctccttattcaaga	5496	-	see also 10589 line
24418	IRF4	NM_002460.1	1069	gacgggctctatcgaaaagact	5492	-	see also 10589 line
24419	IRF4	NM_002460.1	459	ctcagaccctgtacaagtgata	5483	-	see also 10589 line
24420	IRF5	NM_002200.3	1306	ccacaccctcctgagatctct	5507	-	see also 10590 line
24421	IRF5	NM_002200.3	1441	atcttgctgcgctgatatctcc	5508	-	see also 10590 line

724

図 46 (続き)

24422	IRF5	NM_002200.3	1269	atgagctcatctgttccaaaag	5506	-	see also 10590 line
24423	IRF6	NM_006147.2	1491	ttcacagatcctttgatgtgg	5527	-	see also 10591 line
24424	IRF6	NM_006147.2	1363	caccgttgagatctactatgc	5523	-	see also 10591 line
24425	IRF7	NM_001572.2	1213	cccgagctgcaggttctctaac	5531	-	see also 10592 line
24426	IRF7	NM_001572.2	1212	accgagctgcaggttctctaac	5530	-	see also 10592 line
24427	IRX1	NM_024337.1	830	ggcactgaatccacagatgaat	5535	-	see also 10593 line
24428	IRX1	NM_024337.1	887	ggcacaaccagagccttatttc	5536	-	see also 10593 line
24429	IRX3	NM_024336.1	425	ccccagctggagatcccaataca	5538	-	see also 10594 line
24430	IRX3	NM_024336.1	427	ccccagctggagatcccaatacatc	5539	-	see also 10594 line
24431	IRX4	NM_016358.1	122	gtcctacccgcagtttgataacc	5542	-	transcription_regulat or transcription factor -
24432	IRX4	NM_016358.1	514	accctatgacagatgtggaacc	5543	-	see also 24431 line
24433	IRX4	NM_016358.1	1409	cccggttaaccaggtctcagaact	5544	-	see also 24431 line
24434	ISGF3G	NM_006084.3	49	ggcagctgcaccccgaaaactcc	5559	-	see also 10596 line
24435	ISGF3G	NM_006084.3	1106	ttccagctacactccacagaatct	5562	-	see also 10596 line
24436	ISL1	NM_002202.1	1186	aaggaggaccgggtcttaattcc	5586	-	see also 1403 line
24437	ISL1	NM_002202.1	304	atcagattcacagtcagtatatt	5567	-	see also 1403 line
24438	ISL2	NM_145805.1	114	tgctatgggtgatactccaaga	5592	-	see also 9801 line
24439	JUN	NM_002228.2	1927	gtgggtgcacactcatgctaacc	5607	-	see also 1424 line
24440	JUN	NM_002228.2	1042	ggcgaccttatgctctacagtaac	5601	-	see also 1424 line
24441	JUNB	NM_002229.1	1020	cgccggtgtcccccatacaatcg	5610	-	transcription_regulat or AP-1(JunB/Fra-1 heterodimers) -
24442	JUNB	NM_002229.1	1021	gocggtgtcccccatacaatcg	5611	-	see also 24441 line
24443	JUNB	NM_002229.1	441	gocggtgtcccccatacaatcttct	5609	-	see also 24441 line
24444	JUND	NM_005354.2	1053	ctcgcgctggaagagaaaatga	5612	-	transcription_regulat or AP-1(jun-D/c-fos heterodimer) -
24445	KIAA0669	NM_014779.1	1493	ttccggttttcgctgatacgc	5620	-	see also 5951 line
24446	KIAA0669	NM_014779.1	2781	gggcaagtgcgcgatactagaag	5638	-	see also 5951 line
24447	KIAA0863	NM_014913.1	1313	ggcagtcggaccttcaataagt	5682	-	see also 10601 line
24448	KIAA0863	NM_014913.1	772	agcaaccgaaaactaaacatact	5666	-	see also 10601 line
24449	KIAA1041	NM_014947.1	1683	tgcgacacttgatagtctaaaag	5778	-	see also 6138 line
24450	KIAA1041	NM_014947.1	1677	ttggtatgcgacacttgatagc	5776	-	see also 6138 line
24451	KIAA1443	NM_020834.1	593	agcctacccagacgaaaggattg	5794	-	see also 10603 line
24452	KIAA1443	NM_020834.1	163	ggcagcggtctcagtagttcaacc	5792	-	see also 10603 line
24453	KIAA1474	NM_020856.1	2479	tcggctacggagacttccaaa	5843	-	see also 7998 line
24454	KIAA1474	NM_020856.1	1955	gacatctgcgctgataattca	5828	-	see also 7998 line
24455	KIAA1618	NM_020954.1	1567	gtcaacgctgtgtgttcaataa	5869	-	see also 10605 line
24456	KIAA1618	NM_020954.1	2745	agccttatctgcgagattgtct	5895	-	see also 10605 line
24457	KIAA1618	NM_020954.1	1937	taccattgcggagcggaaaagc	5878	-	see also 10605 line
24458	KLF12	NM_007249.3	334	cacaactatccgatatggaagc	5915	-	see also 5050 line
24459	KLF3	NM_016531.2	547	ggcctctcggcgatggaataag	5956	-	see also 6907 line
24460	KLF3	NM_016531.2	1064	ctcgggtctgatgaactaacaaga	5968	-	see also 6907 line
24461	KLF4	NM_004235.3	1114	cgcgcagctgccccagaataaag	5974	-	see also 10608 line
24462	KLF4	NM_004235.3	1481	cgcgcccccacactgtgtgattacg	5978	-	see also 10608 line

図46 (続き)

725

24463	KLF7	NM_003709.1	524	ccgtgattgaggaaagcttc	5989	-	see also 2529 line
24464	KLF7	NM_003709.1	973	gggttcaccgcgtcagtttaac	5999	-	see also 2529 line
24465	L3MBTL	NM_015478.4	1970	gacgcctctcgaagatcgaag	6013	-	see also 10609 line
24466	L3MBTL	NM_015478.4	1951	cgccatcacgcgaattggacg	6012	-	see also 10609 line
24467	LASS2	NM_013384.3	739	ccgagctgggactctaactatgg	6031	-	see also 5416 line
24468	LASS2	NM_013384.3	555	cccgatttggctactacatgatt	6026	-	see also 5416 line
24469	LASS3	NM_17842.2	638	aagagacagttcgaagggtaca	6054	-	see also 10611 line
24470	LASS3	NM_178842.2	508	cacgatggactcgtcttcttaaa	6051	-	see also 10611 line
24471	LASS4	NM_024552.1	1024	ctgtaagatggctcaactacatgc	6092	-	see also 10612 line
24472	LASS4	NM_024552.1	1257	tgcctatagcttcgaagaag	6094	-	see also 10612 line
24473	LASS5	NM_147190.1	235	ggctgctcttcgagcgatttatt	6098	-	see also 10613 line
24474	LASS5	NM_147190.1	901	cacgactaggaatctatcattc	6124	-	see also 10613 line
24475	LBX1	NM_006562.3	271	gcccgtctgtcggaggaagtact	6131	-	see also 10614 line
24476	LBX1	NM_006562.3	466	cgcgacgggtatgacctctttgg	6133	-	see also 10614 line
24477	LBX1	NM_006562.3	407	agctcgccagcaagacgtttaag	6132	-	see also 10614 line
24478	LHX1	NM_005568.2	1163	tcgggtgttcggtaaccaatgc	6137	-	see also 10615 line
24479	LHX1	NM_005568.2	1162	ttccgggtttcggtaaccaatgc	6136	-	see also 10615 line
24480	LHX2	NM_004789.3	1464	ctgcgctaagctgcaacgaaaac	6148	-	see also 3321 line
24481	LHX2	NM_004789.3	1162	cacgtgcaccacgtgttaacaaga	6145	-	see also 3321 line
24482	LHX3	NM_014564.2	644	gacgtgaagagcgcttaacaaca	6151	-	transcription_regulat or
24483	LHX3	NM_014564.2	646	cgctgaagagcgcttaacaacac	6152	-	see also 24482 line
24484	LHX3	NM_014564.2	346	gcccggaggagagcggttactgc	6150	-	see also 24482 line
24485	LHX4	NM_033343.2	1329	taggctatcccgactttccaact	6170	-	see also 9409 line
24486	LHX5	NM_022363.2	1588	ccccaggttcacccacatgatct	6178	-	see also 10616 line
24487	LHX5	NM_022363.2	822	aagttttccactcaactgttgc	6176	-	see also 10616 line
24488	LHX6	NM_014368.2	599	atccactacgacacccatgattga	6180	-	see also 10617 line
24489	LHX6	NM_014368.2	1076	cacctcaagccgacataatgatgg	6183	-	see also 10617 line
24490	LHX9	NM_020204.2	1503	cccgccactgcgaccactttaac	6193	-	see also 10618 line
24491	LHX9	NM_020204.2	1240	agcgcatgcgaacctctttcaag	6190	-	see also 10618 line
24492	LMO1	NM_002315.1	934	agctcaatggcacctttgaatcc	6203	-	transcription_regulat or
24493	LMO4	NM_006769.2	1148	ttccgggagatcggtttcactac	6211	-	see also 4775 line
24494	LMX1A	NM_177398.1	808	aactcccgagaaacctcttgaca	6220	-	see also 10620 line
24495	LMX1A	NM_177398.1	1191	gaccacatgcacctcttatggtgc	6223	-	see also 10620 line
24496	LMX1B	NM_002316.1	986	ttgacagcgatatacctcttaaco	6227	-	see also 10621 line
24497	LOC51270	NM_016521.2	900	atctccgacgacaaatcagaata	6230	-	see also 10622 line
24498	LOC51270	NM_016521.2	902	ctccgacgacaaatcagaatc	6231	-	see also 10622 line
24499	LOC51270	NM_016521.2	903	ttcgacgacaaatcagaatct	6232	-	see also 10622 line
24500	MAD	NM_002357.1	615	ctccgacaggaagaatcgacg	6246	-	see also 1523 line
24501	MAD	NM_002357.1	446	aagccaaattgcacataaagaaa	6243	-	see also 1523 line
24502	MADH3	NM_005902.1	986	gcctgaatgacagcgctattttt	6261	-	see also 10624 line
24503	MADH3	NM_005902.1	939	aagagcgctggcggtctactaca	6260	-	see also 10624 line
24504	MADH4	NM_005359.3	1717	ttcgctcttatgcatactcagg	6305	-	see also 3736 line

726

図46 (続き)

24505	MADH4	NM_005359.3	235	tgacaatatgtctattacgaat	6264	-	see also 3736 line
24506	MAX	NM_197957.1	210	gagcaaccgaggtttcaatctgc	6314	-	see also 10627 line
24507	MBD1	NM_002384.1	1542	caaccgtgataccagagattttc	6340	-	see also 10628 line
24508	MBD1	NM_002384.1	1543	acccgtgatcacgagattttca	6341	-	see also 10628 line
24509	MDS1	NM_004991.1	656	ctgaagaccacagttatgatg	6353	-	see also 10629 line
24510	MDS1	NM_004991.1	421	tcctctcctaattatcaagagc	6350	-	see also 10629 line
24511	MEF2A	NM_005587.1	1618	atcaagtcggaaccgatttcacc	6385	-	see also 10630 line
24512	MEF2A	NM_005587.1	1635	ttcaacctctcctgggctgctatga	6386	-	see also 10630 line
24513	MEF2A	NM_005587.1	922	ggcagctcaaccttaacagattc	6373	-	see also 10630 line
24514	MEF2B	NM_005919.1	853	gcccagcccagatgtggtataccg	6390	-	transcription_regulator
24515	MEF2B	NM_005919.1	630	acccgtgtctgctgaagatcacaca	6389	-	or
24516	MEF2C	NM_002397.2	521	ctgtgagattgctgctgattcatct	6392	-	see also 24514 line
24517	MEF2C	NM_002397.2	1785	gtcaagcgcagcagctttctga	6408	-	see also 1542 line
24518	MEIS1	NM_002398.1	1124	gcccattggagagtttctgaatgg	6433	-	see also 1545 line
24519	MEIS1	NM_002398.1	429	ggcgtgttcgccaacacagattcgg	6418	-	see also 1545 line
24520	MEIS1	NM_002398.1	428	agccgtgttcgccaacacagattc	6417	-	see also 1545 line
24521	MEIS2	NM_002399.2	949	atcgacctctgctgattgataag	6440	-	see also 1556 line
24522	MEIS2	NM_002399.2	619	ggggacacaggacgcgctatctatgg	6436	-	see also 1556 line
24523	MEOX1	NM_004527.2	439	ttggagacactgcacaaatgagaca	6464	-	see also 10634 line
24524	MEOX1	NM_004527.2	355	cgagcaggagggttccaaggaagt	6462	-	see also 10634 line
24525	MEOX2	NM_005924.2	1024	aacagggagctctatagcaaatg	6473	-	see also 10635 line
24526	MEOX2	NM_005924.2	453	ggcacctccgcgagatgcttcc	6470	-	see also 10635 line
24527	MIXL1	NM_031944.1	425	ggcgtgaagatgggaaatccttc	6475	-	transcription_regulator
24528	MIXL1	NM_031944.1	626	ctctctctgaagacattgtgtca	6476	-	or
24529	MLL	NM_005933.1	5924	aacgacatcgggagtttga.caaa	6604	-	see also 24527 line
24530	MLL	NM_005933.1	6182	ctcgaaagcgcgtgtgtatataca	6615	-	see also 10636 line
24531	MLL2	NM_003482.1	5446	ggcgacatagcccgtaagactga	6796	-	see also 10637 line
24532	MLL2	NM_003482.1	2785	atcgttaacgagatctctaatct	6775	-	see also 10637 line
24533	MLL4	NM_014727.1	3225	agctggcgctgcgtcaaacagc	6910	-	see also 10638 line
24534	MLL4	NM_014727.1	3506	acccgctcgtgtggattttaag	6913	-	see also 10638 line
24535	MLL10	NM_004641.1	563	ctgttcgcgcatgctgttataat	6960	-	see also 3155 line
24536	MLL10	NM_004641.1	3034	cacacaaccgtaccacctaatgc	7015	-	see also 3155 line
24537	MLL12	NM_005935.1	3598	atggcgatgttctgtgtataaaa	7065	-	see also 10640 line
24538	MLL12	NM_005935.1	575	agctctagtatgaatacagaac	7026	-	see also 10640 line
24539	MLL12	NM_005935.1	1370	atcgacacagacactttgaaaaa	7041	-	see also 10640 line
24540	MLL17	NM_005938.1	565	tcctgactgtacacttactcaag	7079	-	see also 4146 line
24541	MNT	NM_020310.1	590	ccccgactcagcattaaggagc	7087	-	see also 10642 line
24542	MORF4	NM_006792.2	463	ggcgaattttgcagattgtcc	7090	-	transcription_regulator
24543	MORF4	NM_006792.2	424	ggcaaccagctactcaacaatt	7089	-	or
24544	MSC	NM_005098.2	797	tcggagccaacagactatgtgg	7092	-	see also 24542 line
24545	MSC	NM_005098.2	847	cacttgatggattattcgttaa	7095	-	see also 10643 line

図 46 (続き)

727

24546	MSX1	NM_002448.1	589	ctctcaagctgcacgaagatgc	7096	-	see also 10644 line
24547	MSX2	NM_002449.3	368	tcggtaagtcggaaattcaga	7101	-	see also 10645 line
24548	MSX2	NM_002449.3	374	aagtcggaataatcagaagatgg	7102	-	see also 10645 line
24549	MTA1	NM_004689.2	1330	aggaccacacccgcagtaacatga	7123	-	see also 3218 line
24550	MTA1	NM_004689.2	29	gtcggagactacgtctactttga	7106	-	see also 3218 line
24551	MTA2	NM_004739.2	1822	cggccttatgtctctatcaatgc	7157	-	see also 3269 line
24552	MTF1	NM_005955.1	495	aagcggtaaccatgtaccttga	7181	-	see also 4156 line
24553	MTF1	NM_005955.1	487	aagaaagtaagcggctaccaatgt	7179	-	see also 4156 line
24554	MYB1.2	NM_002466.2	900	ccctcgtccctctaccataaa	7219	-	see also 10648 line
24555	MYB1.2	NM_002466.2	1766	cacgcacacccgttcaagaacg	7225	-	see also 10648 line
24556	MYC	NM_002467.2	432	ctcggcgagccgtattctact	7229	-	see also 1586 line
24557	MYC1.2	NM_005377.1	967	gagcgaagacacgaatgatca	7246	-	see also 10650 line
24558	MYC1.2	NM_005377.1	1077	cacggaatacttatacgaactgg	7252	-	see also 10650 line
24559	MYCN	NM_005378.3	1358	accacgtccggaggttgtaag	7261	-	see also 10651 line
24560	MYCN	NM_005378.3	188	accagaccccgagttgactcg	7256	-	see also 10651 line
24561	MYCN	NM_005378.3	228	cccgacgaagatgaactctact	7257	-	see also 10651 line
24562	MYF6	NM_002469.1	454	tgcggagcgcgcataoagctatatt	7284	-	see also 10652 line
24563	MYF6	NM_002469.1	642	ctcgtgataacggctaaagggaagg	7269	-	see also 10652 line
24564	MYNN	NM_018657.2	642	ggcgcgttagcgaataaagtcactc	7285	-	see also 7538 line
24565	MYNN	NM_018657.2	573	ctcggagattataataatcagaga	7283	-	see also 7538 line
24566	MYOG	NM_002479.2	418	gcgcagtgccatccagtcacatcg	7326	-	see also 10654 line
24567	MYOG	NM_002479.2	253	gtggcggtgtaagggtgtgtaaga	7325	-	see also 10654 line
24568	MYST2	NM_007067.3	638	agcgcgctgccttccatgaagc	7333	-	see also 10655 line
24569	MYST2	NM_007067.3	801	gagccgggataagcagatagaag	7342	-	see also 10655 line
24570	MYT1	NM_004535.1	1759	ctgtccacacaaagataggatcc	7363	-	see also 3089 line
24571	MYT1	NM_004535.1	1627	cactgtcggaagaggtactaca	7358	-	see also 3089 line
24572	NEUROG1	NM_006161.2	862	cccagccgcctccgaagacttca	7385	-	transcription regulator
24573	NEUROG1	NM_006161.2	941	cacacaaacccctgtttcatcc	7387	-	or
24574	NEUROG1	NM_006161.2	939	tccacacaaacccctgtttcatt	7386	-	see also 24572 line
24575	NFAT5	NM_006599.2	3678	gagcagcttagtcagatatttt	7471	-	see also 4634 line
24576	NFATC1	NM_006162.3	2463	ccccgttcacgtcagttctacg	7534	-	see also 10658 line
24577	NFATC1	NM_006162.3	2432	tccgcatttcgggaatcagaggg	7531	-	see also 10658 line
24578	NFATC2	NM_012340.2	1837	cacgggggtgagactgttttcc	7561	-	see also 10659 line
24579	NFATC2	NM_012340.2	391	accgcatacccccagatgtcc	7548	-	see also 10659 line
24580	NFATC3	NM_004555.2	2928	ttagtctcagttacaacatttta	7645	-	see also 10660 line
24581	NFATC3	NM_004555.2	235	cacgacgagctcgtcgtcaaac	7582	-	see also 10660 line
24582	NFATC4	NM_004554.3	1627	tggcggtcacccgtagtcaagc	7670	-	see also 3100 line
24583	NFATC4	NM_004554.3	705	ggacaggtctctctagagattac	7668	-	see also 3100 line
24584	NFE2	NM_006163.1	983	ttctacagacagagattgtcaac	7696	-	see also 4264 line
24585	NFE2	NM_006163.1	1082	tccgacgacggggcaaaaacaaag	7699	-	see also 4264 line
24586	NFE2L1	NM_003204.1	2786	ccctactcggccctcagtgatgc	7729	-	see also 2167 line
24587	NFE2L1	NM_003204.1	1155	ggcgtgaggttttgactatagt	7715	-	see also 2167 line
24588	NFE2L2	NM_006164.2	324	ttcgtcagttacaactagatga	7735	-	see also 4266 line

図46 (続き)

728

24589	NFE2L2	NM_006164.2	1615	tacgttagggagggtgaataaaa	7762	-	see also 4266 line
24590	NFE2L3	NM_004289.4	77	tcgcgttagaccctagatctttac	7768	-	see also 10664 line
24591	NFE2L3	NM_004289.4	76	ctccgctgtagaccctagatcttta	7767	-	see also 10664 line
24592	NFIA	NM_005595.1	272	aggcccgaaacgaaatacttc	7827	-	see also 3883 line
24593	NFIA	NM_005595.1	423	accggaatatcgagagatttg	7835	-	see also 3883 line
24594	NFIB	NM_005596.1	944	aagccaactactatcatgaca	7881	-	see also 3886 line
24595	NFIB	NM_005596.1	280	tcsgtcaattgcctatacttg	7858	-	see also 3886 line
24596	NFIC	NM_005597.1	1231	caggaccgcctcaagatctgt	7894	-	see also 10667 line
24597	NFIC	NM_005597.1	1128	cccgctcctcgctctgattcc	7893	-	see also 10667 line
24598	NFIL3	NM_005384.1	715	ccctcgatggtcgaagtgtg	7906	-	see also 10668 line
24599	NFIL3	NM_005384.1	932	cagctccatctatacaaatat	7917	-	see also 10668 line
24600	NFIL3	NM_005384.1	766	agctcgtgtcgaagtgttcaaga	7912	-	see also 10668 line
24601	NFKB1	NM_003998.2	947	ggcgtgtataaggagctataatc	7951	-	see also 2724 line
24602	NFKB1	NM_003998.2	2409	cccaacggggacggctgaatgc	7981	-	see also 2724 line
24603	NFKB2	NM_002502.2	1055	aagatgagcggcctgaacagt	8024	-	see also 10670 line
24604	NFKB2	NM_002502.2	305	cagagaggcttcgatttcgata	8009	-	see also 10670 line
24605	NFX1	NM_002504.3	2018	tgcctcgcacatcagttatttc	8084	-	see also 1613 line
24606	NFX1	NM_002504.3	1667	acctccgagatgttatgttg	8056	-	see also 1613 line
24607	NFYA	NM_002505.3	669	ggcgagaccatcgtctacaacc	8111	-	see also 10672 line
24608	NFYA	NM_002505.3	203	tagttgacagagcagattgttg	8107	-	see also 10672 line
24609	NFYB	NM_006166.2	673	cacaacatcatcaacagattt	8123	-	see also 4269 line
24610	NFYB	NM_006166.2	433	aacaataatggagaagatattc	8121	-	see also 4269 line
24611	NFYC	NM_014223.2	313	tccactggctcgtatttaagaag	8128	-	see also 10674 line
24612	NFYC	NM_014223.2	600	gccgagccagtcagttactattt	8141	-	see also 10674 line
24613	NKX2-2	NM_002509.2	980	tggtagggagcggcaaccatgt	8150	-	see also 10675 line
24614	NKX2-2	NM_002509.2	741	gcgaagcggagagctttctt	8149	-	see also 10675 line
24615	NKX2-3	NM_145285.1	324	gccgctgagggagcgcaatttc	8151	-	see also 10676 line
24616	NKX2-3	NM_145285.1	325	ccgctgagggagcgcaattttct	8152	-	see also 10676 line
24617	NKX2-5	NM_004387.1	907	gcctcaatccctacggttataac	8158	-	transcription_regulat
24618	NKX2-5	NM_004387.1	487	aggaccctagaccggaagaaaa	8156	-	or
24619	NKX2-5	NM_004387.1	491	ccctagagccgaaagaaagagc	8157	-	see also 24617 line
24620	NKX2-8	NM_014360.2	220	accgtgcagcctcttagattt	8159	-	see also 10677 line
24621	NKX2-8	NM_014360.2	426	ctcgagcgcgagaaaaaggaaga	8161	-	see also 10677 line
24622	NKX3-1	NM_006167.2	674	ccctggtctcgtgtataacagc	8167	-	see also 10678 line
24623	NKX3-1	NM_006167.2	672	ctccctggtctcgtgtataaaca	8166	-	see also 10678 line
24624	NKX6-1	NM_006168.1	804	ggctcgtttggcctattcgttg	8174	-	see also 10679 line
24625	NKX6-1	NM_006168.1	479	cgggactgccagcgttttagcagc	8168	-	see also 10679 line
24626	NKX6-2	NM_177400.1	693	cggggagcagcagcagcaataca	8175	-	transcription_regulat
24627	NME2	NM_002512.1	485	aactggttgactacaagtctgt	8178	-	or
24628	NME2	NM_002512.1	509	ctcatgactgggtctatgaataa	8179	-	see also 10680 line
24629	NPAS1	NM_002517.2	1851	cgcgctcccgaggcgttttaacc	8186	-	see also 10681 line
24630	NPAS1	NM_002517.2	700	agcagcgtcttcgactacattca	8183	-	see also 10681 line

atrial septal defect(心房中膈欠損症)、congenital heart disease(先天性心臓疾患)

図46 (続き)

24631	NPAS2	NM_002518.2	2380	gacgggacggcaagtcagtagc	8211	-	see also 1618 line
24632	NPAS2	NM_002518.2	1010	tgcatagtgcaaaccttaga	8196	-	see also 1618 line
24633	NR0B1	NM_000475.2	47	tactatgagcgcgaagcaaacg	8213	-	see also 10883 line
24634	NR0B1	NM_000475.2	794	cgctcgctctgctcaagtagtg	8221	-	see also 10883 line
24635	NR0B2	NM_021989.1	133	ccgtagcccgctgctctgtagg	8227	-	see also 10884 line
24636	NR0B2	NM_021989.1	365	ccgggtccagcactactcaaga	8229	-	see also 10884 line
24637	NR1D1	NM_021724.1	1844	ccggcagggcgaactcaagaat	8235	-	see also 10885 line
24638	NR1D1	NM_021724.1	2063	tgcgatggcgagcttgcttgg	8237	-	see also 10885 line
24639	NR1D1	NM_021724.1	711	ccctgaatccctctatagtaca	8232	-	see also 10885 line
24640	NR1H2	NM_007121.1	907	agcggctcaagaactaatgatcc	8241	-	see also 10886 line
24641	NR1H2	NM_007121.1	1088	atcgtagacttgcgttaagcaagt	8243	-	see also 10886 line
24642	NR1H2	NM_007121.1	1159	ggcatccactatcgagatcatgc	8244	-	see also 10886 line
24643	NR1H3	NM_005693.1	1226	tcccatgaccgactgatgtcc	8251	-	see also 3959 line
24644	NR1H3	NM_005693.1	263	cacagagatcgctccacaaaagc	8246	-	see also 3959 line
24645	NR1H4	NM_005123.1	1653	ctgggtcgcctgactgaattagc	8276	-	see also 10887 line
24646	NR1H4	NM_005123.1	892	aagagtgtcgaactaaggaaatgc	8262	-	see also 10887 line
24647	NR1H2	NM_003889.2	1940	aagtcggaggtccccaatctgc	8280	-	see also 10888 line
24648	NR1H2	NM_003889.2	2959	aagtcacactgaatgaatcatcg	8289	-	see also 10888 line
24649	NR1H3	NM_005122.2	816	ggcctcttgcctacacaaatga	8302	-	see also 10889 line
24650	NR1H3	NM_005122.2	632	cacacattgcagacatcaaca	8299	-	see also 10889 line
24651	NR2C1	NM_003297.1	887	atcattagcgaatcttggaaaa	8337	-	see also 2229 line
24652	NR2C1	NM_003297.1	1771	gtctaatggcaataatacgaatt	8364	-	see also 2229 line
24653	NR2C2	NM_003298.2	1366	cacagtcacattgaagctaaca	8399	-	see also 10691 line
24654	NR2C2	NM_003298.2	1194	ggatataactcggcgatttgatgc	8396	-	see also 10691 line
24655	NR2E1	NM_003269.2	829	aacggagcatcgaaggaatagg	8426	-	see also 2215 line
24656	NR2E1	NM_003269.2	1806	atcgcaatgtgccaattacaag	8452	-	see also 2215 line
24657	NR2E3	NM_014249.2	859	ctcgctcgcctactcttctatgg	8455	-	see also 10693 line
24658	NR2E3	NM_014249.2	707	tccatggccagccttataacagc	8454	-	see also 10693 line
24659	NR2F1	NM_005654.3	425	agcgtccgcaggaacttaactta	8464	-	see also 10694 line
24660	NR2F1	NM_005654.3	550	agcgttccagcgagggaagaatgc	8465	-	see also 10694 line
24661	NR2F2	NM_021005.2	1793	cagtttaactggccgtatagg	8477	-	see also 8063 line
24662	NR3C1	NM_000176.1	1558	tgcgcctatcgaaaatgtcttca	8516	-	see also 144 line
24663	NR3C2	NM_000901.1	2664	gagatcgtacaacacatacgaaca	8603	-	see also 10697 line
24664	NR3C2	NM_000901.1	1147	tccagcccttgagaacacataataa	8563	-	see also 10697 line
24665	NR4A1	NM_002135.3	1131	aagccttcattgccagcattatgg	8615	-	see also 10698 line
24666	NR4A1	NM_002135.3	486	gacgctcacacagagagatttga	8613	-	see also 10698 line
24667	NR4A2	NM_006186.2	683	ctccgggtcggtttactacaagc	8630	-	see also 4276 line
24668	NR4A2	NM_006186.2	770	ccgggactctccacaaactcc	8631	-	see also 4276 line
24669	NR4A3	NM_006981.2	924	ctcgagcaactacgaactcaagc	8655	-	see also 4874 line
24670	NR4A3	NM_006981.2	1907	ctcctccaatctcgatgatgaat	8660	-	see also 4874 line
24671	NR5A1	NM_004959.3	1414	cccgacttcggggacaaaattcc	8698	-	see also 3449 line
24672	NR5A1	NM_004959.3	1413	accgcactgcggggacaaaattc	8697	-	see also 3449 line
24673	NR5A1	NM_004959.3	300	agcgacagctgcagacaacaag	8692	-	see also 3449 line
24674	NR6A1	NM_001489.2	439	tgaacaacagggtatatogatg	8700	-	see also 1026 line

図46 (続き)

730

24675	NR6A1	NM_001489.2	1137	ctctacgtggcaggagactaatcc	8712	-	see also 1026 line
24676	NT5C	NM_014595.1	439	ccccagttcgtagaacgaattat	8726	-	see also 10702 line
24677	NT5C	NM_014595.1	440	ccccagttcgtagaacgaattatc	8727	-	see also 10702 line
24678	NT5C	NM_014595.1	237	gccgacctggcggataaagtgg	8723	-	see also 10702 line
24679	NY-BR-1	NM_052997.1	312	ttctgtgctgcgataataatctcg	8730	-	see also 10703 line
24680	NY-BR-1	NM_052997.1	455	cactttactatccataaacgaaa	8731	-	see also 10703 line
24681	NY-BR-1	NM_052997.1	461	tactatccataacgaaaaaagt	8732	-	see also 10703 line
24682	ODAG	NM_021167.2	432	tgctcgtgctcagaacactaaat	8745	-	see also 10704 line
24683	ODAG	NM_021167.2	914	ttgggctactctgcataaca	8756	-	see also 10704 line
24684	ONECUT1	NM_004498.1	1222	tccgcttagcagcagtcgcaaaagg	8763	-	see also 3047 line
24685	ONECUT2	NM_004852.1	1137	ccgacactgctccgggaatccaaaa	8772	-	see also 3372 line
24686	OTEX	NM_139282.1	92	tccacgacacccgtttctactgc	8777	-	transcription_regulat
24687	OTEX	NM_139282.1	115	ctgagtgatataccaggtaaaaaat	8778	-	or, -
24688	OTEX	NM_139282.1	117	gagtgatataccaggtaaaaaataa	8779	-	see also 24686 line
24689	OTX1	NM_014562.2	891	gccaccgcagcagcctcttatcc	8784	-	see also 5754 line
24690	OTX1	NM_014562.2	1229	ttctccgcttggaactoaact	8786	-	see also 5754 line
24691	OTX2	NM_021728.2	568	agctaaagtgcgcgaacacacgc	8789	-	see also 8166 line
24692	OTX3	NM_147192.2	132	ttcagtgcatgcgttacattgg	8802	-	see also 9815 line
24693	OTX3	NM_147192.2	921	gocctactgggagtcacatgg	8804	-	see also 9815 line
24694	PIP373C6	NM_019110.3	1686	ctgaggctcccgctgtcttataaa	8811	-	see also 10707 line
24695	PIP373C6	NM_019110.3	245	atgctctagagaacccggagaaaaaa	8806	-	see also 10707 line
24696	p66alpha	NM_017660.2	912	ctcctcgcgtcccaatgtcc	8817	-	see also 10708 line
24697	p66alpha	NM_017660.2	508	aagcaaaactcgtgtgttgaaa	8814	-	see also 10708 line
24698	P66beta	NM_020899.1	798	atgtctcaacgtgtttatttcacc	8835	-	see also 7924 line
24699	P66beta	NM_020899.1	1726	accgacagcgtgataactttta	8855	-	see also 7924 line
24700	PAX3	NM_000438.3	698	cgcctgacgtggagagaagaaatt	8870	-	see also 345 line
24701	PAX3	NM_000438.3	830	gccgcatctcgaagaagtaattc	8872	-	see also 345 line
24702	PAX4	NM_006193.1	313	cacggatccttaaggatctaat	8893	-	see also 10710 line
24703	PAX4	NM_006193.1	694	accggaatcggactctctctcc	8896	-	see also 10710 line
24704	PAX4	NM_006193.1	309	atctcaaggatccttaaggatc	8892	-	see also 10710 line
24705	PAX6	NM_000280.1	746	gggtctgtaccaacgataacata	8912	-	see also 234 line
24706	PAX7	NM_002584.1	613	ccggcacggtaccgagaatgatg	8938	-	see also 10711 line
24707	PAX7	NM_002584.1	1252	gaogcagtcggacacacattcacg	8945	-	see also 10711 line
24708	PAX8	NM_003466.2	868	ggcgtcgtgagtcgccatttgagc	8956	-	see also 2348 line
24709	PAX8	NM_003466.2	168	tgctcacaactccatcagatct	8952	-	see also 2348 line
24710	PBX1	NM_002585.1	646	ttcaccacccacgtgagatct	8963	-	see also 1663 line
24711	PBX2	NM_002586.3	1353	ggctcaacggagatctcttctct	8972	-	see also 1664 line
24712	PBX2	NM_002586.3	1355	ctcaacggagatctcttctctgc	8973	-	see also 1664 line
24713	PBX4	NM_025245.1	788	aacaaaaagaatccgggtataaaa	9007	-	see also 10715 line
24714	PBX4	NM_025245.1	394	gtccagatccgacagattacc	9004	-	see also 10715 line
24715	PEG3	NM_006210.1	1219	cagtcgaggtctaaaaactatgc	9030	-	see also 10716 line
24716	PEG3	NM_006210.1	4292	gagtcacgggtctctctactca	9109	-	see also 10716 line
24717	PGBD1	NM_032507.2	2113	ttggtttgaacctctatcaagaag	9148	-	see also 10717 line

図46 (続き)

731

24718	PGBD1	NM_032507.2	2657	gtgagctacatgattgatgagc	9169	-	see also 10717 line
24719	PGR	NM_000926.2	1696	cggacgtggaggggcgaatctcc	9174	-	see also 603 line
24720	PGR	NM_000926.2	4056	caggtttctatcaacttcaaaa	9218	-	see also 603 line
24721	PHF1	NM_002636.3	596	gagcaacgcagacagagttact	9229	-	see also 1704 line
24722	PHF2	NM_005392.2	1371	gtccgacgcgaagtgaattactgt	9247	-	see also 3763 line
24723	PHF2	NM_005392.2	1373	cgcacggagagtgatatactgtcg	9248	-	see also 3763 line
24724	PHOX2B	NM_003924.2	588	tcctagccgcagttccttaca	9266	-	see also 2683 line
24725	PHOX2B	NM_003924.2	592	tacgccgagttccttacaact	9267	-	see also 2683 line
24726	PHTF1	NM_006608.1	176	gacttgattgaogttgacttaat	9275	-	see also 10720 line
24727	PHTF1	NM_006608.1	738	gacaatgtcaccagagattaga	9297	-	see also 10720 line
24728	PILB	NM_012228.2	243	cagttctacgtcacagagaaaa	9341	-	see also 10721 line
24729	PILB	NM_012228.2	454	gtctgatacctctgttaggata	9345	-	see also 10721 line
24730	PITX1	NM_002653.3	689	ggcaacgtacgaacttcacaagc	9346	-	see also 1735 line
24731	PITX1	NM_002653.3	1134	ctcgggctcacaacacatcaaca	9348	-	see also 1735 line
24732	PITX2	NM_000325.4	1456	gccgactcctcgtatgttata	9356	-	see also 10722 line
24733	PITX2	NM_000325.4	1455	cgcggaactcctcgtatgttat	9355	-	see also 10722 line
24734	PITX3	NM_005029.3	315	aggacggttcgtgaaaaaagaag	9364	-	transcription_regulat or
24735	PITX3	NM_005029.3	261	aggagacagcagactcagaaaaag	9363	-	transcription factor -
24736	PKNOX1	NM_004571.3	875	gtcgcctggagacaattagatcc	9384	-	see also 24734 line
24737	PKNOX1	NM_004571.3	1215	cagaggttttgcctgattctat	9394	-	see also 3110 line
24738	PKNOX2	NM_022062.1	685	aaccgtcaactcacaaagtgtgt	9402	-	see also 8258 line
24739	PKNOX2	NM_022062.1	723	accacccggttaccatgttaacc	9403	-	see also 8258 line
24740	PLAG1	NM_002655.1	901	gccttgatccgcacaacagttg	9418	-	see also 1736 line
24741	PLAG1	NM_002655.1	778	atgtttcacccggaagatcatct	9413	-	see also 1736 line
24742	PLAG2	NM_002657.2	1243	ctcactactgccgacaaattgc	9461	-	see also 1738 line
24743	PLAG2	NM_002657.2	489	aaccacccagtgatgtactgt	9452	-	see also 1738 line
24744	PLU-1	NM_006618.2	3021	atcgcttgcttcctatgatattgt	9503	-	see also 4679 line
24745	PLU-1	NM_006618.2	3893	ggagatgcgtatccgttggaaca	9526	-	see also 4679 line
24746	PML	NM_002675.2	446	cgcgcctggataacgtcttttc	9580	-	transcription_regulat or
24747	PML	NM_002675.2	447	cgccttggaataacgtcttttcg	9581	-	leukemia(白血病)
24748	PML	NM_002675.2	681	caccgcgaagaccacaacatct	9582	-	see also 24746 line
24749	POLR2I	NM_006233.3	146	cgcgtgcgggaactgtgattacc	9603	-	see also 10728 line
24750	POLR2I	NM_006233.3	349	aggacgccatcgccctttactac	9605	-	see also 10728 line
24751	POLR3K	NM_016310.2	257	aacatcctcgtgttacttctatg	9608	-	see also 10729 line
24752	POLR3K	NM_016310.2	158	atcggaagatcccaaaactgaaa	9607	-	see also 10729 line
24753	POU1F1	NM_000306.1	626	aacaacaatctgccgtttgaaa	9619	-	see also 10730 line
24754	POU1F1	NM_000306.1	458	caggcgggaaaagtaattgtgttg	9615	-	see also 10730 line
24755	POU1F1	NM_000306.1	454	aactcagcgggaaaagtaattg	9614	-	see also 10730 line
24756	POU2F1	NM_002697.1	988	ggctcgtctatgggaaactatat	9640	-	see also 1755 line
24757	POU2F1	NM_002697.1	990	ctcgtctatgggaaactatatg	9641	-	see also 1755 line
24758	POU2F2	NM_002698.1	463	ggcctgctaccagaccacaaact	9666	-	see also 1757 line
24759	POU2F2	NM_002698.1	802	aacgatgcagagactatgtctgt	9667	-	see also 1757 line

732

図 4.6 (続き)

24760	POU2F3	NM_014352.1	1253	tcgcctccagttttaactcttc	9679	-	see also 10732 line	
24761	POU2F3	NM_014352.1	929	tcggagagagatctccatgattgc	9675	-	see also 10732 line	
24762	POU3F2	NM_005604.1	1001	ggcggatcaaaactgggatttacc	9681	-	transcription_regulat or	transcription factor -
24763	POU3F4	NM_000307.1	123	ttcgcgaacctcagaactctt	9682	-	see also 264 line	
24764	POU4F1	NM_006237.2	1463	agcagaagcggatgaaattctct	9694	-	transcription_regulat or	transcription factor -
24765	POU4F2	NM_004575.1	1287	cgctgcctgaaggctactttgc	9700	-	-	-
24766	POU4F2	NM_004575.1	494	aaccaccacggacaatatattgc	9697	-	see also 24765 line	
24767	POU4F2	NM_004575.1	491	tccaccaccacggagcaatatat	9696	-	see also 24765 line	
24768	POU5F1	NM_002701.1	141	ttctgaatccogaatgaaaagg	9716	-	see also 10735 line	
24769	POU5F1	NM_002701.1	129	gccacacgtaggttttgaatcc	9715	-	see also 10735 line	
24770	POU5F1	NM_002701.1	128	ggccacacgtaggttttgaatc	9714	-	see also 10735 line	
24771	PPARA	NM_005036.2	582	ggctttcggcggaacgattcg	9730	-	see also 10736 line	
24772	PPARA	NM_005036.2	714	cacacggcgattcgtttggacg	9731	-	see also 10736 line	
24773	PPARD	NM_006238.2	772	cacacgctctcgttttggctcg	9748	-	see also 10737 line	
24774	PPARD	NM_006238.2	992	tccacgacatgagacatgtgg	9749	-	see also 10737 line	
24775	PPARG	NM_005037.3	680	ggcggagatctccagtgatatcg	9773	-	see also 3519 line	
24776	PPARG	NM_005037.3	823	cagacaaatcaccattcgtttatc	9775	-	see also 3519 line	
24777	PRDM1	NM_001198.2	1480	ccccctacggatgaattgtaa	9829	-	see also 774 line	
24778	PRDM1	NM_001198.2	1025	aggaaactacccgttctaacatt	9816	-	see also 774 line	
24779	PRDM1	NM_001198.2	1371	gtcctaaggcagcgaaggtttgg	9828	-	see also 774 line	
24780	PRDM16	NM_022114.1	3595	gaccacgaaggcggctgtttagc	9877	-	see also 8274 line	
24781	PRDM16	NM_022114.1	3237	gtcggaaacacacgcacttttag	9874	-	see also 8274 line	
24782	PRDM16	NM_022114.1	2990	agcagcgtacaggttaagtac	9871	-	see also 8274 line	
24783	PRDM2	NM_012231.2	5083	cagcaaaaatgtcgtcgaataagc	9967	-	see also 10740 line	
24784	PRDM2	NM_012231.2	1982	gagcgtcacatgcataccat	9899	-	see also 10740 line	
24785	PRRX1	NM_006902.2	1356	caggctttggagcgtgtcttga	10000	-	see also 4838 line	
24786	PRRX1	NM_006902.2	1184	ggcggcacagggcggatgagaacg	9997	-	see also 4838 line	
24787	PRRX2	NM_016307.3	804	accgcctgagtcagattatct	10010	-	transcription_regulat or	transcription factor -
24788	PRRX2	NM_016307.3	803	caccgocctgagtcagattatc	10009	-	see also 24787 line	
24789	RARA	NM_000964.1	245	ttccagttagtagatagacaca	10013	-	see also 10742 line	
24790	RARA	NM_000964.1	242	agcttcagttagttgatatagc	10012	-	see also 10742 line	
24791	RARA	NM_000964.1	799	accaagtcacattaaagactgt	10015	-	see also 10742 line	
24792	RARB	NM_000965.2	1309	gacggcctaccctaaatgaac	10037	-	see also 10743 line	
24793	RARB	NM_000965.2	1624	gagcgtgaattaccctgaaat	10049	-	see also 10743 line	
24794	RARG	NM_000966.3	672	tcgcctctcgggtctacaagc	10053	-	see also 10744 line	
24795	RARG	NM_000966.3	696	atgcttcgtgcaatgacaagt	10054	-	see also 10744 line	
24796	RB1	NM_000321.1	2701	agcgaccgtgtgtcacaagaag	10143	-	see also 268 line	
24797	RB1	NM_000321.1	1986	aggttaactacgcgtgttaatt	10120	-	see also 268 line	
24798	RBBP1	NM_002892.2	2108	aacggggacgacctccttaaaa	10202	-	see also 10747 line	
24799	RBBP1	NM_002892.2	3189	aacgatgaagttagtatgtg	10235	-	see also 10747 line	
24800	RBBP1	NM_002892.2	1309	tactgcggttcggcaaatattca	10189	-	see also 10747 line	

733

図46 (続き)

24801	RBBP2	NM_005056.1	1220	arctatcagagagatatacacttc	10281	-	see also 10748 line
24802	RBBP2	NM_005056.1	933	gaggtaacccgaagacgaaaagt	10272	-	see also 10748 line
24803	REL	NM_002908.1	231	gagggaatcggttagatataca	10372	-	see also 1940 line
24804	REL	NM_002908.1	830	ttcgtttgttgaaacagtg	10390	-	see also 1940 line
24805	RELA	NM_021975.1	588	tgccgagtggaaccgaactctgg	10432	-	see also 8236 line
24806	RELA	NM_021975.1	1036	ccagccctatcccttaccgtca	10440	-	see also 8236 line
24807	RELB	NM_006509.2	1034	tgccgatttgcgaataaacaag	10448	-	see also 4552 line
24808	RELB	NM_006509.2	837	tgccattgagcgaagattcaac	10444	-	see also 4552 line
24809	RERE	NM_012102.2	2282	tgaccaccgaccgctttatgttc	10476	-	see also 10752 line
24810	RERE	NM_012102.2	1741	ctgcataaagcggttacatgc	10464	-	see also 10752 line
24811	RFX5	NM_000449.2	926	acctcgggaacgggtcatcaaac	10503	-	see also 353 line
24812	RFX5	NM_000449.2	931	gggaacgggtcatcaaaccaag	10504	-	see also 353 line
24813	RFXAP	NM_000538.2	816	tcctgcaagacctactcttttag	10513	transcription_regulat or	bare lymphocyte syndrome(不全リンパ球症候 群), MHC class II deficiency(MHCクラスII欠損症)
24814	RFXAP	NM_000538.2	878	gtccagaagtagtgcaatttta	10516	-	see also 24813 line
24815	RFXAP	NM_000538.2	822	aagacctactcttttagaacaag	10514	-	see also 24813 line
24816	RLF	NM_012421.1	4783	tgcttaagtaacggtaccacaat	10667	-	see also 10754 line
24817	RLF	NM_012421.1	2309	atgacgactcgcgttacaaatgt	10581	-	see also 10754 line
24818	RNF110	NM_007144.2	408	gtgtgacgtcaggtccataaaa	10696	-	see also 10755 line
24819	RNF110	NM_007144.2	410	gtgacgtgcaggtccataaac	10697	-	see also 10755 line
24820	RNF4	NM_002938.2	776	gtctcatctgtccacagaatgc	10709	-	see also 1972 line
24821	RORA	NM_002943.2	821	ttcacgacgactcagtaactac	10728	-	see also 1984 line
24822	RORA	NM_002943.2	1396	ccgcaagtttcaaatcccttag	10749	-	see also 1984 line
24823	RORB	NM_006914.2	1392	cactcacgccatccaatacgtgg	10784	-	see also 4849 line
24824	RORB	NM_006914.2	653	tcacactcggagtgatcacatgt	10771	-	see also 4849 line
24825	RORB	NM_006914.2	1017	tgccaacgggacgcatggaac	10775	-	see also 4849 line
24826	RORC	NM_005060.2	1186	aaaccgacggtctttttgaagg	10809	-	see also 3529 line
24827	RORC	NM_005060.2	1183	gacacccgacgggtctttttga	10808	-	see also 3529 line
24828	RORC	NM_005060.2	1181	ctgacaaccgacggctcttttt	10807	-	see also 3529 line
24829	RPF-1	NM_007252.1	1917	gaccgagaagtagtaggttg	10834	-	see also 5055 line
24830	RPF-1	NM_007252.1	1776	atcggaagtgaacccatccaaaa	10828	-	see also 5055 line
24831	RUNX1	NM_001754.2	1358	gacgtgcccagcggcatgacaac	10844	-	see also 10757 line
24832	RUNX1	NM_001754.2	1297	taccaataccttgagatccatgc	10843	-	see also 10757 line
24833	RUNX2	NM_004348.1	430	ggggtaacgatgaaaaattatc	10848	-	see also 2904 line
24834	RUNX2	NM_004348.1	961	gtgcctaggcgcatttcagatga	10859	-	see also 2904 line
24835	RXRA	NM_002957.3	1342	tgccgtccatcgggctcaaatgc	10866	Retinoic acid receptor RXR- alpha	atherosclerosis(粥状硬化症)
24836	RXRB	NM_021976.3	877	tcggcaagaccttacactct	10873	-	see also 10758 line
24837	RXRB	NM_021976.3	1331	ctcaacacgatccatgatgttc	10883	-	see also 10758 line
24838	RXRB	NM_021976.3	1666	tcgggtcattggccttaagtgt	10891	-	see also 10758 line
24839	RXRG	NM_006917.2	702	atctacacgttgggataataa	10901	-	see also 10759 line
24840	RXRG	NM_006917.2	707	caggtgctgggataaagaact	10903	-	see also 10759 line
24841	SATB1	NM_002971.2	1294	ctccccctgtcagtagatctatg	10943	-	see also 10760 line

24842	SATB1	NM_002971.2	1295	tccctcgtcagtagatctatga	10944	-	see also 10760 line
24843	SATB2	NM_015265.1	1249	accgacacacgggattgtgtct	10994	-	see also 6294 line
24844	SBLF	NM_006873.2	339	cagacagccacactcgaatataca	11015	-	see also 10762 line
24845	SBFL	NM_006873.2	1399	gccgaagagagatgaatctatt	11041	-	see also 10762 line
24846	SCAND2	NM_022050.2	452	gactcttcagtagacaagatctcc	11072	-	see also 10763 line
24847	SCAND2	NM_022050.2	463	tacaagatctccaatagttaaa	11073	-	see also 10763 line
24848	SCMH1	NM_012236.1	1710	accttctgtagacaatctgttt	11101	-	see also 10764 line
24849	SCMH1	NM_012236.1	729	ttcgctgaatcgctctcttctgg	11082	-	see also 10764 line
24850	SCMH1	NM_012236.1	499	actccaagcacacggagttcaaga	11075	-	see also 10764 line
24851	SCML1	NM_006746.2	1179	aacggctgtagcgtatgtctact	11113	-	see also 10765 line
24852	SCML1	NM_006746.2	626	atgaggtttacgagacattctcc	11103	-	see also 10765 line
24853	SCML2	NM_006089.1	780	gtcgcctgaacagagatgtattta	11133	-	see also 10766 line
24854	SCML2	NM_006089.1	1839	caccactagttggggacatatcc	11154	-	see also 10766 line
24855	SCRT1	NM_031309.2	691	cggcgagtgccggcaaaaacatacg	11162	-	see also 10767 line
24856	SDCCAG3	NM_005786.3	3582	atcgaccctactattatgaaaa	11178	-	see also 10768 line
24857	SDCCAG3	NM_005786.3	2351	cccgctacgtcacgcacataacc	11167	-	see also 10768 line
24858	SHOX2	NM_003030.2	232	ggcgaagtcggaccaaattccacc	11200	-	see also 2032 line
24859	SIM1	NM_005068.2	2303	ttgctctcaccggcgagttttt	11239	-	see also 3536 line
24860	SIM1	NM_005068.2	2218	ttgactctcgtctaaagactatct	11237	-	see also 3536 line
24861	SIM2	NM_005069.2	837	atcgagaagaacctataccatca	11265	-	see also 3538 line
24862	SIM2	NM_005069.2	1026	tgcctcgtgagtgctcaattgt	11268	-	see also 3538 line
24863	SIX1	NM_005982.1	993	cacgcagagagctcaaacatttc	11280	-	see also 4179 line
24864	SIX2	NM_016932.3	531	gtgctcaagacacactacatcg	11284	-	see also 10771 line
24865	SIX2	NM_016932.3	395	agcacttcacaagaatgaagc	11283	-	see also 10771 line
24866	SIX4	NM_017420.1	1594	gtgtgtatacagcttctctaatac	11319	-	see also 6993 line
24867	SIX6	NM_007374.1	291	aactacgcggagctctatcatat	11342	-	see also 10773 line
24868	SIX6	NM_007374.1	100	tccagctgcccatcttgaatttc	11341	-	see also 10773 line
24869	SLC26A10	NM_133489.1	2713	ctccagatcacgtgtttgtgagt	11344	-	-
24870	SLC26A3	NM_000111.1	2174	gtgaggggcccctaaatcgatttt	11428	-	see also 10774 line
24871	SLC26A3	NM_000111.1	2172	cagtgaaggcccttaaatcgatt	11427	-	see also 10774 line
24872	SLC26A3	NM_000111.1	434	gggatttggccctctactacaagg	11359	-	see also 10774 line
24873	SLC30A9	NM_006345.2	1010	ctcatccgtacggagttttcaaat	11471	-	see also 4439 line
24874	SLC30A9	NM_006345.2	900	tacgggttcaagcaagtattttct	11466	-	see also 4439 line
24875	SLC34A3	NM_080877.1	1255	gtcgtgagggacagtcacatagc	11504	-	-
24876	SLC38A2	NM_018976.3	352	ggcgaatgggacgatttcagat	11505	-	see also 7623 line
24877	SLC38A2	NM_018976.3	1295	accgagccgtagagaatgatg	11536	-	see also 7623 line
24878	SLC38A2	NM_018976.3	1377	tggatactaacattttacgaac	11540	-	see also 7623 line
24879	SLC38A6	NM_153811.1	1233	atcacttagcacttaattat	11587	-	see also 10778 line
24880	SLC38A6	NM_153811.1	234	cagcatcccaggtgtttcatt	11556	-	see also 10778 line
24881	SLC4A10	NM_022058.2	2919	aggcagctaccgctcgaaaggt	11666	-	see also 8254 line
24882	SLC4A10	NM_022058.2	1216	aagatcgtaacttggtgatca	11617	-	see also 8254 line
24883	SMARCA4	NM_003072.2	3624	tgcgtatcgggctttaaatacc	11695	-	see also 10780 line
24884	SMARCA4	NM_003072.2	2727	ctggagcgtagagtttgacaaat	11684	-	see also 10780 line
24885	SNAPC4	NM_003086.1	3201	cccgggtcccaccgctcttaaatg	11729	-	see also 2079 line

735

図46 (続き)

24886	SNAPC4	NM_003086.1	1480	cacatccctaccgcagaaattgt	11720	-	see also 2079 line	
24887	SNAPC5	NM_006049.1	181	atgttgatgcatgagacaatga	11742	-	see also 10783 line	
24888	SNAPC5	NM_006049.1	164	ctgaacagtcacatgatatttg	11741	-	see also 10783 line	
24889	SOLH	NM_005632.1	1401	tgcacaagtcacgctcagaacc	11746	-	transcription_regulat	-
24890	SOLH	NM_005632.1	1910	tgcagcccccagagatcaactgc	11747	-	or	-
24891	SOLH	NM_005632.1	3446	ggcagctcctggatctgtcc	11748	-	see also 24889 line	
24892	SOX13	NM_005686.1	302	agctggactcaaccgaaatttg	11749	-	see also 10785 line	
24893	SOX13	NM_005686.1	662	aggtaacatgctcttatgtcatg	11753	-	see also 10785 line	
24894	SOX14	NM_004189.2	168	acgcttagtgccgaatggaagc	11754	-	see also 10786 line	
24895	SOX14	NM_004189.2	640	tacgttgatgcccgtgtaactgtac	11755	-	see also 10786 line	
24896	SOX4	NM_003107.2	2081	cgggacccgtgatttttaacttcg	11760	-	transcription_regulat	translation
24897	SOX4	NM_003107.2	953	gaccccgagtggtggcacatcaagc	11758	-	or	regulator
24898	SOX4	NM_003107.2	2014	aactgaaccccgagctcaaatctt	11759	-	see also 24896 line	
24899	SOX5	NM_006940.4	1738	tcccgaggcgtgtgtagcaatga	11789	-	see also 24896 line	
24900	SOX5	NM_006940.4	1426	gcccaggttagcaacaatagttta	11778	-	see also 10788 line	
24901	SOX6	NM_033326.1	2112	agcttcgagattggggaggtataag	11831	-	see also 9400 line	
24902	SOX6	NM_033326.1	705	tggcagcgtcacaaattgagaaa	11801	-	see also 9400 line	
24903	SP140	NM_007237.2	1352	gtcagtgctagtgaactagaaa	11863	-	see also 10791 line	
24904	SP140	NM_007237.2	316	tccggagccgctcctcatctcc	11842	-	see also 10791 line	
24905	SP140	NM_007237.2	1350	gggtcagtgctagtgaactaga	11862	-	see also 10791 line	
24906	SPBPBP	NM_006692.1	859	gggcactttaactaaagctttaca	11877	-	see also 10792 line	
24907	SPBPBP	NM_006692.1	776	ggctggagagtgccattataaca	11872	-	see also 10792 line	
24908	SPDEF	NM_012391.1	1332	gcccgtccatccgcgcagatttac	11878	-	see also 5306 line	
24909	SPI1	NM_003120.1	279	aacgccaaacgcacagagatttac	11884	-	see also 10793 line	
24910	SPI1	NM_003120.1	255	tgcctatgacacggagatctatc	11882	-	see also 10793 line	
24911	SPIB	NM_003121.1	57	taccacagatgctgtcttctatga	11887	-	transcription_regulat	translation
24912	SPIB	NM_003121.1	314	cgcatacccccacggagaaacttcg	11890	-	or	regulator
24913	SPIB	NM_003121.1	190	accggcagcagccgcttttagc	11889	-	see also 24911 line	
24914	SPIB	NM_152323.1	239	cagtgctgcggactctctatttg	11899	-	see also 24911 line	
24915	SPIB	NM_152323.1	109	ttcagttactgcgcagattacaga	11893	-	see also 10794 line	
24916	SPIB	NM_152323.1	357	ctccagctgtttgaataccttca	11900	-	see also 10794 line	
24917	SREBF1	NM_004176.2	2305	gacgtggcgcagatctatgtgg	11919	-	see also 10795 line	
24918	SREBF1	NM_004176.2	2170	cgcagccctgtgtctaccataagc	11917	-	see also 10795 line	
24919	SREBF1	NM_003131.1	1589	agccgcagatgggtgtgtatgc	11934	-	see also 2113 line	
24920	SREBF1	NM_003131.1	985	gacggcgaagcgaactgattcaga	11928	-	see also 2113 line	
24921	ST18	NM_014682.1	713	tgcgtactgctcttaagaagcc	11937	-	see also 10797 line	
24922	ST18	NM_014682.1	2218	ttcgtaaacgcctctcaca	11967	-	see also 10797 line	
24923	STAT1	NM_007315.2	2177	aaggggccatcacatccatcagtg	12048	-	see also 10798 line	
24924	STAT1	NM_007315.2	354	gtctcagtggtacagaacttcagc	12001	-	see also 10798 line	
24925	STAT1	NM_005419.2	734	cactctaggccgattactaac	12066	-	see also 10799 line	
24926	STAT2	NM_005419.2	744	ccgattactacccttaactgagc	12067	-	see also 10799 line	

736

図 46 (続き)

24927	STAT3	NM_003150.2	992	ctgcctagatggctctgagaaact	12091	-	see also 10800 line
24928	STAT3	NM_003150.2	994	gcctagatcgctctgagaaactgg	12092	-	see also 10800 line
24929	STAT3	NM_003150.2	1042	ttcagacccgctcaacaataaag	12096	-	see also 10800 line
24930	STAT4	NM_003151.2	1358	aacttaagcaacgaagatttg	12166	-	see also 2128 line
24931	STAT4	NM_003151.2	1239	cagagccgttggtgacttaaac	12161	-	see also 2128 line
24932	STAT5A	NM_003152.2	2470	agccgacgggaccccttctgttg	12215	-	see also 10802 line
24933	STAT5A	NM_003152.2	2471	gcccagcgggaccccttctgttc	12216	-	see also 10802 line
24934	STAT5B	NM_012448.2	551	atccgccatattgtacaatga	12232	-	see also 5336 line
24935	STAT5B	NM_012448.2	2198	gaccgttgagagacttgaatta	12247	-	see also 5336 line
24936	STAT6	NM_003153.3	1867	ctggctgacccggctgactatg	12265	-	see also 10804 line
24937	STAT6	NM_003153.3	764	ttgatagaactctgctaattgg	12263	-	see also 10804 line
24938	SUPT4H1	NM_003168.1	195	agggtaacccgagagatgatat	12279	-	see also 10805 line
24939	SUPT4H1	NM_003168.1	124	ttcgtggtcaagactatagacc	12274	-	see also 10805 line
24940	SUPT5H	NM_003169.2	2243	gtcagcgtggcgttggttagc	12304	-	see also 2141 line
24941	SUPT5H	NM_003169.2	618	ggcgagattatcaatgaagaat	12291	-	see also 2141 line
24942	SUPT6H	NM_003170.2	2327	gtcgaagctctacaattggttg	12347	-	see also 2142 line
24943	SUPT6H	NM_003170.2	2223	ggccatgaacgggctttacagc	12345	-	see also 2142 line
24944	SUPT6H	NM_003170.2	439	aagtaccggcgtgtcaaaaaaat	12316	-	see also 2142 line
24945	T	NM_003181.2	1370	cctatgctcatcgggacaaattc	12403	-	see also 10808 line
24946	T	NM_003181.2	969	tgtgaactccttgtaaatgat	12400	-	see also 10808 line
24947	TADA2L	NM_001488.2	827	ctcccgacctactcttgactcc	12412	-	see also 10809 line
24948	TADA2L	NM_001488.2	882	agctcgagcagattcattgagg	12413	-	see also 10809 line
24949	TADA3L	NM_006354.2	1058	cgcacacttgagagattactga	12449	-	see also 10810 line
24950	TADA3L	NM_006354.2	1436	cacctccctcgcgaatcagaaca	12452	-	see also 10810 line
24951	TAF10	NM_006284.2	461	gcctgaaccacgcgataattcg	12455	-	see also 10811 line
24952	TAF10	NM_006284.2	591	aggacgcaagtaactactaacc	12457	-	see also 10811 line
24953	TAF13	NM_005645.2	252	aagacaaggctcgagtaacaagt	12467	-	see also 10812 line
24954	TAF13	NM_005645.2	260	gtcgagtacaagttgaagatc	12468	-	see also 10812 line
24955	TAF1B	NM_005680.1	1410	gtcgacaacaccagtagcatata	12511	-	see also 10813 line
24956	TAF1B	NM_005680.1	911	gcctgactacgagacacatata	12495	-	see also 10813 line
24957	TAF4	NM_003185.2	1360	gtcctgctcgaagtgaagaatgg	12525	-	see also 10814 line
24958	TAF4	NM_003185.2	3137	gacagttcacgcgacaagaatc	12557	-	see also 10814 line
24959	TAF4	NM_003185.2	2813	tcggggcacagctcaagttttt	12552	-	see also 10814 line
24960	TAF5	NM_006951.2	1053	gggatgcgcgctagtaagaaca	12579	-	see also 4867 line
24961	TAF5	NM_006951.2	1058	gcccgcgtagtaagaacaagatag	12580	-	see also 4867 line
24962	TAF5L	NM_014409.2	1273	cagtcataatagcctgactctgc	12653	-	see also 5664 line
24963	TARDBP	NM_007375.2	1172	gtcaggcccatcgggtaataacc	12668	-	see also 10817 line
24964	TARDBP	NM_007375.2	1175	agggcccatcgggtaataaccaaa	12669	-	see also 10817 line
24965	TBR1	NM_006593.2	1741	cggccgaacgcgtggtttgtgacg	12698	-	see also 4618 line
24966	TBR1	NM_006593.2	1037	ttccacgctctaatacaatttt	12691	-	see also 4618 line
24967	TBX1	NM_005992.1	797	tggacgacaacggccacattatt	12706	-	see also 10819 line
24968	TBX1	NM_005992.1	873	acgcgaagatagcgagaatatg	12710	-	see also 10819 line
24969	TBX10	NM_005995.2	304	agcctctgtggggaattcaac	12717	-	transcription_regulat or

図 46 (続き)

24970	TBX10	NM_005995.2	442	tcccttgagacgacaaagagatgac	12718	-	see also 24969 line
24971	TBX10	NM_005995.2	443	ccctctggagcagacagagataca	12719	-	see also 24969 line
24972	TBX19	NM_005149.1	579	tgcccatogaatgagtaacaaact	12733	-	see also 3614 line
24973	TBX19	NM_005149.1	581	cccatogaatgagtaacaaactgc	12734	-	see also 3614 line
24974	TBX19	NM_005149.1	80	agcccgagcgatggcactgtttct	12720	-	see also 3614 line
24975	TBX2	NM_005994.2	495	cgtgacgattggccgtataagt	12740	-	see also 10821 line
24976	TBX2	NM_005994.2	1874	tgctttcagccctcagatc	12744	-	see also 10821 line
24977	TBX20	NM_020417.1	584	taccggtagcaactactcaaac	12749	-	see also 10822 line
24978	TBX20	NM_020417.1	585	accggtggcaactactcaaac	12750	-	see also 10822 line
24979	TBX20	NM_020417.1	110	ggcgacggagacacacataaac	12746	-	see also 10822 line
24980	TBX21	NM_013351.1	1070	tccaacacgcatactcttacttt	12760	-	see also 10823 line
24981	TBX21	NM_013351.1	642	acctgtgtgtccaaagtttaac	12758	-	see also 10823 line
24982	TBX22	NM_016954.2	690	accgcgagtgccagctagagagc	12778	-	see also 6980 line
24983	TBX22	NM_016954.2	189	gagcgagccgcttgaaacacac	12765	-	see also 6980 line
24984	TBX3	NM_005996.2	447	gcccagatggatcaattgggg	12812	-	see also 10825 line
24985	TBX3	NM_005996.2	996	tagtacattccgacatacttgt	12821	-	see also 10825 line
24986	TBX3	NM_005996.2	1282	gggaatogaacctcaagattt	12827	-	see also 10825 line
24987	TBX4	NM_018488.2	1619	ccggagaattctcttaccagtag	12853	-	see also 10826 line
24988	TBX4	NM_018488.2	1561	ccctcgccacatctaaatgctgc	12849	-	see also 10826 line
24989	TBX4	NM_018488.2	1073	cccgcaacctggacttaccttgc	12841	-	see also 10826 line
24990	TBX5	NM_000192.3	991	tgccgacatcacagatacaaat	12863	-	see also 10827 line
24991	TBX5	NM_000192.3	988	acctgccacgacacacagataca	12861	-	see also 10827 line
24992	TBX6	NM_004608.2	1506	tccgggaaacggcagaaactgt	12891	-	see also 10828 line
24993	TBX6	NM_004608.2	820	caccctaaactggattgttcc	12887	-	see also 10828 line
24994	TCEA1	NM_006756.1	469	ctcgagatactatgtttcatcc	12910	-	see also 10829 line
24995	TCEA1	NM_006756.1	461	gacaatgctcgagatactatg	12909	-	see also 10829 line
24996	TCEA1	NM_006756.1	231	tcacaagaatcggaaatgtcagt	12903	-	see also 10829 line
24997	TCEA2	NM_003195.4	1157	ggctgaatcgaggaaatgcactc	12912	-	see also 10830 line
24998	TCEA1	NM_004780.1	166	tggaacaaaccacgcaaaagaaat	12913	-	see also 10831 line
24999	TCEA1	NM_004780.1	168	ggacaaccacgcgaagaaatga	12914	-	see also 10831 line
25000	TCF1	NM_000545.3	619	ggcgaggaacccggttcaaatgg	12916	-	see also 10832 line
25001	TCF1	NM_000545.3	1568	gggcctgctcccgagactatgc	12918	-	see also 10832 line
25002	TCF19	NM_007109.1	386	aggactttgtgctcattaccatc	12921	-	see also 10833 line
25003	TCF19	NM_007109.1	352	tacttcatgttccaacaagtacg	12920	-	see also 10833 line
25004	TCF2	NM_000458.1	937	aggcctacgatcgcaaaagaac	12930	-	see also 355 line
25005	TCF2	NM_000458.1	914	cgcgtccagcagaaatttgtacc	12929	-	see also 355 line
25006	TCF3	NM_003200.1	1053	cccgatcactcaagcaact	12952	-	see also 10835 line
25007	TCF3	NM_003200.1	1052	cccgatcactcaagcaataac	12951	-	see also 10835 line
25008	TCF3	NM_003200.1	1051	tcccggtactcaagcaataa	12950	-	see also 10835 line
25009	TCF7L1	NM_031283.1	587	tcagcacacttgtcttaataag	12960	-	see also 10836 line
25010	TCF7L1	NM_031283.1	1048	ggccttgacgtgagcgtgaatca	12962	-	see also 10836 line
25011	TCF7L1	NM_031283.1	1227	cacaacctgtctgagagaacaa	12964	-	see also 10836 line
25012	TCF8	NM_030751.2	715	gtgaacgcagctgggtgtaatcg	12975	-	see also 8924 line
25013	TCF8	NM_030751.2	2505	agcgctagctgccaaataagcaaa	13025	-	see also 8924 line

25014	TCFL4	NM_170607.2	906	accctgcggagagattgtattgg	13053	-	see also 10023 line
25015	TCFL4	NM_170607.2	925	ttggcgtcctgcaccattgaaa	13054	-	see also 10023 line
25016	TEAD2	NM_003598.1	1269	tgctgtgagcgtatcatgaac	13069	-	see also 10839 line
25017	TEAD2	NM_003598.1	404	caggttttgcccgaggaatc	13058	-	see also 10839 line
25018	TEAD3	NM_003214.1	401	gagttgattgcagctattata	13075	-	see also 10840 line
25019	TEAD3	NM_003214.1	830	gttgaggagacagctaccattgc	13081	-	see also 10840 line
25020	TEAD4	NM_003213.1	1386	tgctgtgcatgctctattgttt	13093	-	see also 10841 line
25021	TEAD4	NM_003213.1	340	gcccgtggcagcgcaaaatca	13085	-	see also 10841 line
25022	TFAP2B	NM_003221.2	533	ctgagccatccggagatggaaga	13101	-	see also 2182 line
25023	TFAP2B	NM_003221.2	635	cccaaatcggtgactctctaat	13104	-	see also 2182 line
25024	TFAP2BL1	NM_172238.1	1525	tcctggcgagcaaaacaatctgt	13137	-	see also 10042 line
25025	TFAP2C	NM_003222.3	385	cacactgagtcgccgaataca	13151	-	see also 10844 line
25026	TFAP2C	NM_003222.3	940	ctcctcagctctacgtctaaata	13153	-	see also 10844 line
25027	TFOP2	NM_005653.3	1462	cagtggttcagtcgaaatcggtt	13193	-	see also 10845 line
25028	TFOP2	NM_005653.3	485	tgccgcgagcgaagtgaatcc	13166	-	see also 10845 line
25029	TFOP1	NM_007111.3	215	ggcaaaagatccggtctaattg	13216	-	see also 10846 line
25030	TFDP1	NM_007111.3	1232	aactgttgaggcggtgttcata	13218	-	see also 10846 line
25031	TFDP2	NM_006286.1	492	aagaacattaggcggaagattta	13232	-	see also 4376 line
25032	TFDP2	NM_006286.1	1233	gagacccctctgcttcaatga	13244	-	see also 4376 line
25033	TFE3	NM_006521.3	1302	gctgtgcaggagatcaacatt	13258	-	see also 4560 line
25034	TFE3	NM_006521.3	1302	agcgtgcaggcgatcaacatt	13257	-	see also 4560 line
25035	TFEB	NM_007162.1	1295	ctcccgtccggcgatgaacatgg	13266	-	see also 10848 line
25036	TFEB	NM_007162.1	379	agcaacagcgtgcatgcatcac	13262	-	see also 10848 line
25037	TFEC	NM_012252.1	312	ctcaccagttactagctattgg	13269	-	see also 10849 line
25038	TFEC	NM_012252.1	890	ttcacttgacaggtgtgtattag	13284	-	see also 10849 line
25039	TGIF	NM_003244.2	918	agcagatagcgggccaaaacttc	13303	-	see also 10850 line
25040	TGIF	NM_003244.2	886	gtcagtcgggtgtgggacaaaaca	13301	-	see also 10850 line
25041	TGIF2	NM_021809.4	635	accctgtgtgacacactactct	13316	-	see also 10851 line
25042	TGIF2	NM_021809.4	413	ggcaagaccctaatcagtttac	13314	-	see also 10851 line
25043	TGIF2	NM_021809.4	637	ccttgtagcacacttactctgc	13317	-	see also 10851 line
25044	THG-1	NM_030353.3	1663	acctagacagcagagatgatatg	13322	-	see also 10852 line
25045	THG-1	NM_030353.3	1694	aagcctgtgtggcattgacaaaca	13323	-	see also 10852 line
25046	THRA	NM_003250.4	600	gtcaggggtatccctagtacc	13325	-	see also 2190 line
25047	THRB	NM_000461.2	418	aggcgacagcttgaaaaatga	13338	-	see also 361 line
25048	THRB	NM_000461.2	1517	aacacacgtgacacacttttgg	13358	-	see also 361 line
25049	THRB	NM_000461.2	417	gaggcgagcagcgttgaaaaatg	13337	-	see also 361 line
25050	TIEG	NM_005655.1	1060	cccaagcgctgtcattgttgg	13374	-	see also 10854 line
25051	TIEG	NM_005655.1	1059	cccaaaagcgctgtcattgttgg	13373	-	see also 10854 line
25052	TIEG	NM_005655.1	1091	agcccggttgacaggttcaaaag	13375	-	see also 10854 line
25053	TX1	NM_015035.2	1679	atgggttgcaagcaacaaagtcc	13401	-	see also 10855 line
25054	TX1	NM_015035.2	577	gggcacaggagacacttagatgg	13384	-	see also 10855 line
25055	TLX1	NM_005521.2	1167	tgttcggagcgccctacacttac	13425	-	see also 3854 line
25056	TLX1	NM_005521.2	1053	gtcacgcagagcccattagtcc	13423	-	see also 3854 line

圖46 (続老)

739

[illegible]

図46 (続き)

25100	ZFH4	NM_024721.2	1513	aactaccagtagtattagtaac	14021	-	see also 8698 line
25101	ZFH1B	NM_014795.2	4006	cocgaacagatacagagatgaaga	14333	-	see also 5974 line
25102	ZFH1B	NM_014795.2	2015	gtcttcggtagtgagtgataat	14277	-	see also 5974 line
25103	ZFP36L1	NM_004926.2	977	tccagatccctcacatgttga	14349	-	see also 10880 line
25104	ZFP36L1	NM_004926.2	976	gtccagatccctcacatgttga	14348	-	see also 10880 line
25105	ZFP36L1	NM_004926.2	161	ttcagctgagcgaagtgtttatg	14342	-	see also 10880 line
25106	ZFP36L2	NM_006887.3	849	gactcgccatccgaagtacaga	14352	-	see also 10881 line
25107	ZFP36L2	NM_006887.3	579	ctctacagccacccttaaggagc	14351	-	see also 10881 line
25108	ZFP37	NM_003408.1	37	ctccagcggcgtccagatctga	14354	-	see also 10882 line
25109	ZFP37	NM_003408.1	656	aagtcaattcaaccatagcttgc	14357	-	see also 10882 line
25110	ZFP95	NM_014569.2	230	accgaatcccgagagttataga	14371	-	see also 10883 line
25111	ZFP95	NM_014569.2	229	gaccgaatcccgagagttatag	14370	-	see also 10883 line
25112	ZHX1	NM_007222.2	1679	gtggcagcgttccaaagtcacaa	14445	-	see also 5034 line
25113	ZHX1	NM_007222.2	735	atgtttgtcgaatgaatttt	14412	-	see also 5034 line
25114	ZHX2	NM_014943.2	1945	accacagatattcggtcacaagg	14490	-	see also 6132 line
25115	ZHX2	NM_014943.2	2940	gtcagagcgttggtgattacgtgg	14498	-	see also 6132 line
25116	ZHX2	NM_014943.2	510	tgcattgttcggacatcacaaagt	14472	-	see also 6132 line
25117	ZNF11B	NM_006955.1	494	aacatggagcgttaagtctttcc	14503	-	see also 10885 line
25118	ZNF133	NM_003434.3	1359	accggaagtcaacgcataatcata	14509	-	see also 10887 line
25119	ZNF133	NM_003434.3	2457	acccttgattccttactactct	14516	-	see also 10887 line
25120	ZNF133	NM_003434.3	2454	ggcaaccttgattccttactac	14515	-	see also 10887 line
25121	ZNF134	NM_003435.1	1300	ctgagtaaaagccgtttgagtc	14523	-	see also 10888 line
25122	ZNF134	NM_003435.1	614	aagtggcctcaattgtgaaga	14517	-	see also 10888 line
25123	ZNF135	NM_003436.2	774	cacagctcagcaacttatogaaca	14532	-	see also 10889 line
25124	ZNF135	NM_003436.2	624	ctccacatcaaccatgactcc	14528	-	see also 10889 line
25125	ZNF135	NM_003436.2	690	gagaagccagcaactaaatgtttt	14530	-	see also 10889 line
25126	ZNF137	NM_003438.1	299	aagtggaagtcgtcaccttttt	14537	-	see also 10890 line
25127	ZNF137	NM_003438.1	302	tgggaagtcgtcacctttttatc	14539	-	see also 10890 line
25128	ZNF137	NM_003438.1	301	gtgggaagtcgtcacctttttat	14538	-	see also 10890 line
25129	ZNF140	NM_003440.2	1682	ttccgtttgcctcctcctttat	14561	-	see also 10891 line
25130	ZNF140	NM_003440.2	1683	tccgtttgcctcctcctttatt	14562	-	see also 10891 line
25131	ZNF142	NM_005081.1	1991	ttgcctgcagcgggaagtatga	14583	-	see also 10892 line
25132	ZNF142	NM_005081.1	1686	tccgacacatgcttctacatacg	14579	-	see also 10892 line
25133	ZNF145	NM_006006.3	436	caccgcaatagtaacactatcac	14610	-	see also 10893 line
25134	ZNF145	NM_006006.3	437	accgcaatagtaacactatcac	14611	-	see also 10893 line
25135	ZNF147	NM_005082.2	1080	caccatagacctcaaaaacgagc	14636	-	see also 10894 line
25136	ZNF147	NM_005082.2	1532	atccccaaggttcacactatgc	14643	-	see also 10894 line
25137	ZNF154	NM_003444.1	1409	ctcaaaattccggcctcattag	14655	-	see also 10895 line
25138	ZNF154	NM_003444.1	860	ctgcagtagcagcctcatgaatgt	14653	-	see also 10895 line
25139	ZNF155	NM_003445.2	541	caggtctcaggaactctaatata	14656	-	see also 10896 line
25140	ZNF155	NM_003445.2	1083	gtggaagacacctctatttagg	14659	-	see also 10896 line
25141	ZNF157	NM_003446.2	425	tgcctcaggaatgataatgacc	14668	-	see also 10897 line
25142	ZNF157	NM_003446.2	391	cactcgtgtggcaatgattct	14667	-	see also 10897 line
25143	ZNF165	NM_003447.2	2406	cacatcttattgacacattttaga	14692	-	see also 10898 line

741

図 46 (続き)

25144	ZNF165	NM_003447.2	1179	ggcaggacacattgcttacagaga	14677	-	see also 10898 line
25145	ZNF167	NM_018651.1	661	ggggacttcgctcaatgacttc	14701	-	see also 10899 line
25146	ZNF167	NM_018651.1	662	gggaacttcgctcaatgacttct	14702	-	see also 10899 line
25147	ZNF174	NM_003450.1	1418	gacattcagagggtgaatacatc	14712	-	see also 10900 line
25148	ZNF174	NM_003450.1	996	ttgtatgcaggaggcaaaaggcgc	14710	-	see also 10900 line
25149	ZNF175	NM_007147.2	568	ttgcaggtgggtatcacattcc	14718	-	see also 10901 line
25150	ZNF175	NM_007147.2	1426	ttgtttaccaccagaaaacaca	14735	-	see also 10901 line
25151	ZNF187	NM_152736.2	218	ttggcatgaggtggaagtaca	14741	-	see also 10902 line
25152	ZNF187	NM_152736.2	220	cggcataggtggaagtacaaa	14742	-	see also 10902 line
25153	ZNF189	NM_003452.2	1250	ttcgattagcacatacattata	14767	-	see also 2316 line
25154	ZNF189	NM_003452.2	685	atccgtaaaagacaaactaaga	14758	-	see also 2316 line
25155	ZNF19	NM_006961.2	1021	gagtagttccgagttgtttatcc	14794	-	see also 10904 line
25156	ZNF19	NM_006961.2	923	ggcgagcctttaataataatgc	14789	-	see also 10904 line
25157	ZNF192	NM_006298.1	553	gacctattagaggattggaaa	14802	-	see also 10905 line
25158	ZNF192	NM_006298.1	632	ctctggaggaggtagtcattc	14804	-	see also 10905 line
25159	ZNF193	NM_006299.2	1047	caccagggaatccacaatatata	14817	-	see also 10906 line
25160	ZNF193	NM_006299.2	1190	cagtcggcgttcattttctattg	14821	-	see also 10906 line
25161	ZNF197	NM_006991.2	1227	ttcagcgttcgagccttcaatg	14838	-	see also 10907 line
25162	ZNF197	NM_006991.2	2053	tggtaaggtcttcggttcaaca	14850	-	see also 10907 line
25163	ZNF202	NM_003455.1	1352	aagatgaacgcgccttacaata	14871	-	see also 10908 line
25164	ZNF202	NM_003455.1	1086	aggacaatccaggtagacttaat	14868	-	see also 10908 line
25165	ZNF206	NM_032805.1	948	atccggagattgcagttcatctgc	14879	-	transcription „regulat
25166	ZNF206	NM_032805.1	1926	ggcaccgtttccgaatagctcc	14880	-	or
25167	ZNF206	NM_032805.1	312	ggcgcgtgagtttagttgtaat	14878	-	see also 25165 line
25168	ZNF207	NM_003457.1	382	aacaatagatgcggtaccacaatg	14889	-	see also 25165 line
25169	ZNF207	NM_003457.1	357	ttcatgtcatgcaggtaacataa	14887	-	see also 2338 line
25170	ZNF211	NM_006385.2	962	agcatgtacgcggaagatgaacc	14927	-	see also 10910 line
25171	ZNF211	NM_006385.2	493	atgcgcgactcgtggaatatgt	14919	-	see also 10910 line
25172	ZNF215	NM_013250.1	1838	accgacgtacaaaaccttactaag	14963	-	see also 10912 line
25173	ZNF215	NM_013250.1	717	ctctgaggcatctcgtcaaaagt	14938	-	see also 10912 line
25174	ZNF215	NM_013250.1	1834	ttcaaccgacgtacaaaccttac	14962	-	see also 10912 line
25175	ZNF217	NM_006526.2	2815	cctgtcacccggataagacaaaa	15026	-	see also 10913 line
25176	ZNF217	NM_006526.2	2814	ccctgtcacccggataagacaaaa	15025	-	see also 10913 line
25177	ZNF219	NM_016423.1	2022	gtccggctcgtcgaagtacacc	15052	-	see also 10914 line
25178	ZNF219	NM_016423.1	602	agcgccttcgcttcaactctatc	15045	-	see also 10914 line
25179	ZNF232	NM_014519.2	734	aggaatgctctatcaactacagc	15054	-	see also 10915 line
25180	ZNF232	NM_014519.2	1931	tgggtctcagagctcattagaca	15066	-	see also 10915 line
25181	ZNF236	NM_007345.1	826	agccagttaacgcgcacacattag	15089	-	see also 10916 line
25182	ZNF236	NM_007345.1	827	ggcagttaacgcgcacacattagg	15090	-	see also 10916 line
25183	ZNF236	NM_007345.1	750	gtctataaccggaatatcgaca	15088	-	see also 10916 line
25184	ZNF24	NM_006965.1	1026	ttcagcgaagttccattcttgt	15168	-	see also 10917 line
25185	ZNF24	NM_006965.1	263	tggcgaagagggaagtagtcc	15160	-	see also 10917 line
25186	ZNF256	NM_005773.2	1907	aaccactagcctcgttaaaca	15184	-	see also 10918 line

図46 (続き)

25187	ZNF256	NM_005773.2	1354	cactggtacaggcccttatgt	15183	-	see also 10918 line
25188	ZNF256	NM_005773.2	569	caccatgtcagaaactgtatac	15178	-	see also 10918 line
25189	ZNF263	NM_005741.3	1927	ctcgtcatcaggaagaactca	15204	-	see also 3982 line
25190	ZNF263	NM_005741.3	1489	ttctctaaacaactcaaacctaat	15195	-	see also 3982 line
25191	ZNF265	NM_005455.2	768	ctcgtggtcgaactcaagatcc	15230	-	see also 10920 line
25192	ZNF265	NM_005455.2	818	tcaccacgaagaagatcttttc	15231	-	see also 10920 line
25193	ZNF274	NM_016324.2	1622	cagtggaggtactaaacagatta	15247	-	see also 10921 line
25194	ZNF274	NM_016324.2	1617	accttcagtcggaggtactaaaca	15246	-	see also 10921 line
25195	ZNF277	NM_021994.1	195	cacagtcgggggtgtaggttatg	15261	-	see also 10922 line
25196	ZNF277	NM_021994.1	532	ttgttatgtacggttttccaga	15266	-	see also 10922 line
25197	ZNF287	NM_020653.1	533	gagacctgtcagacagaatttag	15294	-	see also 10923 line
25198	ZNF287	NM_020653.1	987	ctgtgaagttaacagaactattgg	15300	-	see also 10923 line
25199	ZNF3	NM_032924.2	1572	cagagttacgaccgagttaaata	15333	-	see also 10924 line
25200	ZNF3	NM_032924.2	1579	acgaccgagtttaataatcacaga	15335	-	see also 10924 line
25201	ZNF3	NM_017715.1	607	ctgtgaattccaaccttatctca	15340	-	see also 10925 line
25202	ZNF3	NM_017715.1	609	gtgaattccaaccttatctca	15341	-	see also 10925 line
25203	ZNF305	NM_014724.1	589	gacggtacgtctacgaaagaag	15349	-	see also 10926 line
25204	ZNF305	NM_014724.1	234	aggattgggacctcgtgtaaaac	15344	-	see also 10926 line
25205	ZNF305	NM_014724.1	587	gagacggtactgtctacgaaaga	15348	-	see also 10926 line
25206	ZNF306	NM_024493.1	1083	ggcggcacatccctcctgaatgt	15374	-	see also 10927 line
25207	ZNF306	NM_024493.1	1566	atgttgaacctcccatctttat	15377	-	see also 10927 line
25208	ZNF31	NM_145238.2	2854	gacgtctaacctctactca	15397	-	see also 10928 line
25209	ZNF31	NM_145238.2	1446	gtcccatctcggaaagcttc	15386	-	see also 10928 line
25210	ZNF323	NM_030899.2	873	gagccacaggtgcaatgaatgt	15401	-	see also 10929 line
25211	ZNF323	NM_030899.2	789	atgtattttggattcttaagtac	15400	-	see also 10929 line
25212	ZNF33A	NM_006974.1	801	tcgtcaaggagacaatcactatg	15407	-	see also 10930 line
25213	ZNF33A	NM_006974.1	1353	gacttcgacaccttaagtaacac	15411	-	see also 10930 line
25214	ZNF35	NM_003420.2	1181	cacattacgggaaaaatgctatga	15424	-	see also 10931 line
25215	ZNF35	NM_003420.2	457	aaccttggcagctactcattac	15414	-	see also 10931 line
25216	ZNF38	NM_145914.2	290	ggcagtttggtaccatgatacc	15428	-	see also 10932 line
25217	ZNF38	NM_145914.2	700	gagcaggagttcgtcgaagatcc	15431	-	see also 10932 line
25218	ZNF394	NM_032164.2	251	gtcccaacgcgacggacttttgc	15444	-	see also 10933 line
25219	ZNF394	NM_032164.2	733	cagttccgcgagtttggaagc	15446	-	see also 10933 line
25220	ZNF396	NM_145756.1	1022	atcgacgaacccactactgattca	15480	-	see also 10934 line
25221	ZNF396	NM_145756.1	751	ggcatagactgcgttgcaatgt	15474	-	see also 10934 line
25222	ZNF397	NM_032347.1	183	tcgggaacaagaactaatactag	15487	-	see also 10935 line
25223	ZNF397	NM_032347.1	765	ttcatttcagggaataaagttgt	15493	-	see also 10935 line
25224	ZNF397	NM_032347.1	180	tcctcgggaacaagaactaatac	15486	-	see also 10935 line
25225	ZNF41	NM_007130.1	2265	cgcacttcattgcgcgcatcaga	15520	-	see also 10936 line
25226	ZNF41	NM_007130.1	1132	ctgtgaacatgaacactatgaaa	15512	-	see also 10936 line
25227	ZNF42	NM_003422.2	1042	tcgcgaggtccaggtagtgaag	15527	-	see also 10937 line
25228	ZNF434	NM_017810.2	1757	agccgaagtctctattcttttgc	15545	-	see also 10938 line
25229	ZNF434	NM_017810.2	1751	accttagccgaagtcttattct	15543	-	see also 10938 line
25230	ZNF435	NM_025231.1	499	ttcagaagaaggagacactca	15549	-	see also 10939 line

743

図 46 (続き)

25231	ZNF435	NM_025231.1	174	aggattccagctcacaaaagtc	15546	-	see also 10939 line
25232	ZNF45	NM_003425.2	954	atgccttcctcgctgttttcaagt	15571	-	see also 10940 line
25233	ZNF45	NM_003425.2	759	aacgagatgattgacctataaa	15568	-	see also 10940 line
25234	ZNF494	NM_152677.1	1293	ttcgaaaactactcggagtaaatg	15598	-	see also 10941 line
25235	ZNF494	NM_152677.1	1757	acctacgggtgcacagataatt	15617	-	see also 10941 line
25236	ZNF494	NM_152677.1	1581	ttccacatgtaggtacacaga	15606	-	see also 10941 line
25237	ZNF495	NM_024303.1	1338	agcgttcctcagacttattagc	15623	-	see also 10942 line
25238	ZNF495	NM_024303.1	1395	ttcagtcgggtgaaattgttaag	15625	-	see also 10942 line
25239	ZNF496	NM_032752.1	1474	ggcgcaaccccgatctctaga	15628	-	see also 10943 line
25240	ZNF496	NM_032752.1	488	gagtcgtggctcgcgaaggaaagt	15626	-	see also 10943 line
25241	ZNF70	NM_021916.2	510	aacaggttagagtcacaacaagg	15633	-	see also 10944 line
25242	ZNF70	NM_021916.2	643	atgattacggagggaatttcagt	15634	-	see also 10944 line
25243	ZNF75	NM_007131.1	664	atcaggatgcgaagtacaaaaa	15642	-	see also 10945 line
25244	ZNF75	NM_007131.1	1197	agccttataagttagctttatgc	15646	-	see also 10945 line
25245	ZNF80	NM_007136.1	671	atgtgggagcggtgttaacaaaa	15650	-	see also 10946 line
25246	ZNF80	NM_007136.1	1034	ttcctaaccggcgacatgaaga	15653	-	see also 10946 line
25247	ZNF80	NM_007136.1	1117	ctgtttcttcggacatagtag	15654	-	see also 10946 line
25248	ZNF83	NM_018300.2	1926	ttcgcgcacaattcatcttgt	15667	-	see also 10947 line
25249	ZNF83	NM_018300.2	1923	ctcttcgcgcacaattcatct	15666	-	see also 10947 line
25250	ZNF83	NM_018300.2	1921	aactcttcgcgcacaattcatat	15665	-	see also 10947 line
25251	ZNF85	NM_003429.1	1015	aacccttactaccatagaaaaa	15672	-	transcription_regulat or
25252	ZNF91	NM_003430.1	686	aoccaaataaatcggtttatat	15683	-	transcription_regulat or
25253	ZNF91	NM_003430.1	3551	aagaaaattcactactacaccc	15684	-	see also 25252 line
25254	ZNFN1A3	NM_012481.3	1055	ctcggagatgtttccagttatca	15709	-	see also 10949 line
25255	ZNFN1A3	NM_012481.3	128	tgcagcgggttttgaatgactaca	15688	-	see also 10949 line
25256	ZNFN1A4	NM_022465.2	623	tgcgcacatgtctgtattggacc	15723	-	see also 10950 line
25257	ZNFN1A4	NM_022465.2	620	gtctgcggcatgtgtctgtttgg	15722	-	see also 10950 line
25258	ZNRD1	NM_014596.4	462	agccgatgaaggcgcaaaactgtct	15731	-	see also 10951 line
25259	ZNRD1	NM_014596.4	409	tgcctcagatgtggttaagaagg	15730	-	see also 10951 line
25260	ANKRD17	NM_032217.3	1289	ctggcattatacgcacattctaat	15762	-	see also 9099 line
25261	ANKRD17	NM_032217.3	5423	ggagccgggataataoactataagg	15856	-	see also 9099 line
25262	BRCA1	NM_007294.1	4423	agctacccttcacataagtga	16043	-	see also 5077 line
25263	BRCA1	NM_007294.1	5544	cacaggtgtccaccacaattgtgg	16066	-	see also 5077 line
25264	DBB1	NM_001923.2	538	tccactagatcgcgataataaag	16080	-	see also 1223 line
25265	DBB1	NM_001923.2	537	ttccactagatcgcgataataaag	16079	-	see also 1223 line
25266	DBB2	NM_000107.1	206	aagaactcggagattgtattacg	16134	-	see also 10954 line
25267	DBB2	NM_000107.1	1292	gacgtgttcgatggaaactcagg	16155	-	see also 10954 line
25268	DMC1	NM_007068.2	694	tgctgatcgctttaattagacc	16179	-	see also 10955 line
25269	DMC1	NM_007068.2	398	ggggcagcgaacaaactaattga	16167	-	see also 10955 line
25270	ERCC1	NM_001983.1	932	atcgccgcataaagaagaatct	16206	-	see also 10956 line
25271	ERCC1	NM_001983.1	926	cagctcatcgccgcatacagaga	16204	-	see also 10956 line
25272	ERCC3	NM_000122.1	2017	ggcgggtgcttcgagctaaaaaa	16253	-	see also 10957 line

図46 (続き)

744

25273	ERCC3	NM_000122.1	1091	tgcacgttcggggcattgttc	16232	-	see also 10957 line
25274	ERCC3	NM_000122.1	1499	gacctcgtccgcgaagatgaca	16235	-	see also 10957 line
25275	FANCG	NM_004629.1	2124	ccaggttaataagacacttact	16284	-	see also 3144 line
25276	FANCG	NM_004629.1	2116	cagatgtgccaggtatcagaga	16283	-	see also 3144 line
25277	FEN1	NM_004111.4	454	ggccgttaagggtggccattgtgc	16293	-	see also 10959 line
25278	FEN1	NM_004111.4	1449	acccaaggatccactaagaaga	16300	-	see also 10959 line
25279	FEN1	NM_004111.4	1448	aaccacaaaggatccactaagaag	16299	-	see also 10959 line
25280	JTV1	NM_006303.2	795	gtcaacgcaccccttatagatag	16320	-	see also 4395 line
25281	JTV1	NM_006303.2	400	atgagccacacactttaaccacc	16308	-	see also 4395 line
25282	MPG	NM_002434.1	352	ggccataccgcagcatctatttc	16327	-	see also 10961 line
25283	MPG	NM_002434.1	577	ccgcacacccagggcattgtatg	16331	-	see also 10961 line
25284	MPG	NM_002434.1	351	ggcccataccgcagcatctattt	16326	-	see also 10961 line
25285	MSH2	NM_000251.1	1282	accgactctatcagggtataaat	16366	-	see also 183 line
25286	MSH2	NM_000251.1	2645	atcgcaaggatagtatatcatgg	16419	-	see also 183 line
25287	MSH2	NM_000251.1	876	ctgtctcggttaatacaagtttt	16354	-	see also 183 line
25288	MSH3	NM_002439.1	671	atctatacgcgcgtagaattaca	16433	-	see also 10963 line
25289	MSH3	NM_002439.1	1988	ttgctcggagccgttattttaga	16490	-	see also 10963 line
25290	MSH4	NM_002440.2	1087	gacgactctgtcttaataatta	16567	-	see also 10964 line
25291	MSH4	NM_002440.2	2713	tagccacttagctgttctaaact	16626	-	see also 10964 line
25292	MSH5	NM_002441.2	1089	ttctcgtctggagctcattcagt	16645	-	see also 1574 line
25293	MSH5	NM_002441.2	1091	ctcgtctggagctcattcagtt	16646	-	see also 1574 line
25294	MSH6	NM_000179.1	3185	tgcggcgactgttctataacttt	16779	-	see also 153 line
25295	MSH6	NM_000179.1	3502	ggcaagctacgctctatgagaca	16795	-	see also 153 line
25296	MSH6	NM_000179.1	712	gggttaggcacaaacttacgtaac	16685	-	see also 153 line
25297	N4BP2	NM_018177.2	1437	atctacgttgacactagtcttg	16851	-	see also 10966 line
25298	N4BP2	NM_018177.2	3770	acctgaatgatgacaaagtata	16920	-	see also 10966 line
25299	NBS1	NM_002485.3	608	ttgtggacgtccaattgttaagc	16978	-	see also 1591 line
25300	NBS1	NM_002485.3	225	cagtcgatacgcgaataatgc	16960	-	see also 1591 line
25301	OGG1	NM_002542.4	1664	tgcgacaaagaccccatcgaatgc	17029	-	see also 10968 line
25302	OGG1	NM_002542.4	1434	tgggtactagcggatcaagtat	17027	-	see also 10968 line
25303	PMS2L9	NM_005395.1	423	ttctgtggggtatgattatcacc	17049	-	transcription_regulat
25304	PNKP	NM_007254.2	927	acgaaggacacgcccatatccatc	17053	-	or
25305	PNKP	NM_007254.2	1359	gggtgoccatcgacacacacaaac	17055	-	see also 10969 line
25306	POLH	NM_006502.1	1135	ggcatgtgccggaggatgaaca	17075	-	see also 10969 line
25307	POLH	NM_006502.1	642	gcctatcggcagacattgttc	17062	-	see also 4548 line
25308	POLQ	NM_006596.3	1761	acctgcacgtcgtgtgatttc	17149	-	see also 4627 line
25309	POLQ	NM_006596.3	7794	cgctgagcgtcaagctatcaaca	17357	-	see also 4627 line
25310	POLQ	NM_006596.3	2970	acgtcgcaatatcgcaactatct	17197	-	see also 4627 line
25311	RAD1	NM_002853.2	446	tggccacgtgttcgcaactaaa	17370	-	see also 1883 line
25312	RAD1	NM_002853.2	1033	tagtctatcttttaagggtatct	17394	-	see also 1883 line
25313	RAD18	NM_020165.2	743	ctgtttatcagcgaagaaga	17423	-	see also 10973 line
25314	RAD18	NM_020165.2	941	atgcgatctgttcgcatcctaat	17434	-	see also 10973 line
25315	RAD51	NM_002875.2	896	atctaggtatgcactgcttattg	17471	-	see also 1917 line

745

図46 (続き)

25316	RAD51	NM_002875.2	813	ctgataatgtagcaatctctcg	17469	-	see also 1917 line
25317	RAD51C	NM_002876.2	171	ctcggcgcttagcaagaagttg	17480	-	see also 10975 line
25318	RAD51C	NM_002876.2	375	tgggggtggtgagtccttaata	17485	-	see also 10975 line
25319	RAD51L1	NM_002877.3	932	gtgatagccgactaggaaatag	17536	-	see also 10976 line
25320	RAD51L1	NM_002877.3	813	cagttatctgacgaatcagatt	17532	-	see also 10976 line
25321	RAD51L3	NM_002878.2	1130	atggcgtgtctggccaatcttc	17549	-	see also 10977 line
25322	RAD51L3	NM_002878.2	1131	tggcgtgtctggccaatcttc	17550	-	see also 10977 line
25323	REV1L	NM_016316.1	2906	ggcgaccagctctgatactaca	17629	-	see also 6805 line
25324	REV1L	NM_016316.1	1852	aggaaagtcgcaaaacatttat	17599	-	see also 6805 line
25325	TIAF1	NM_004740.2	182	gcgggttcagggtcttaagaat	17661	-	see also 10979 line
25326	TIAF1	NM_004740.2	328	tgaatgacacctatttaaggtaa	17665	-	see also 10979 line
25327	XPA	NM_000380.2	835	accgtaagactgtactatgt	17742	-	see also 10980 line
25328	XPA	NM_000380.2	854	gtgtggccatgaactgacatag	17743	-	see also 10980 line
25329	XPC	NM_004628.2	584	ttcggaggcgcatgaacggttc	17754	-	see also 10981 line
25330	XPC	NM_004628.2	589	aggcgatgaacggttcaataa	17757	-	see also 10981 line
25331	XRCC1	NM_006297.1	1925	ttcgtcccgatggatctacagt	17806	-	see also 10982 line
25332	XRCC1	NM_006297.1	418	cccaacccgcttgcgcatgttgg	17794	-	see also 10982 line
25333	XRCC1	NM_006297.1	478	tgggaccgggtcaaaattgttg	17798	-	see also 10982 line
25334	XRCC2	NM_005431.1	351	atgtcccgctagttacaattct	17811	-	see also 10983 line
25335	XRCC2	NM_005431.1	661	ttgcaacgacacaaactataatg	17821	-	see also 10983 line
25336	XRCC3	NM_005432.2	369	ctggacctgaatcccgatatt	17831	-	see also 10984 line
25337	XRCC3	NM_005432.2	1001	agcccaattccgtgtgaattg	17840	-	see also 10984 line
25338	ASF1A	NM_014034.1	475	gtgctaattactgtacctatcg	17847	-	see also 5464 line
25339	ASF1A	NM_014034.1	388	cccgcaaggaggcatatttgt	17845	-	see also 5464 line
25340	BAF53A	NM_004301.2	661	gtgttctatctggctgtgttg	17870	-	see also 10986 line
25341	BAF53A	NM_004301.2	363	ggcggtccacactactacataga	17860	-	see also 10986 line
25342	CBX3	NM_007276.3	112	atggcctccacaaactacatt	17898	-	transcription_regulat
25343	CBX3	NM_007276.3	113	tggcctccacaaactacattg	17899	-	or
25344	CBX4	NM_003655.1	262	ggaggctggtcgcccaatata	17900	-	see also 25342 line
25345	CBX4	NM_003655.1	1359	acccgtcgccctgaatctcc	17912	-	see also 2476 line
25346	CBX5	NM_012117.1	416	ctcaaacagtgcgcatgacatca	17919	-	see also 10988 line
25347	CBX5	NM_012117.1	589	ttgcaaaagaagctaattgaaa	17922	-	see also 10988 line
25348	CBX6	NM_014292.2	630	ccctcgcggaacgcggtatagg	17925	-	see also 5600 line
25349	CBX7	NM_175709.1	535	tgcggctctcgcaagaagttc	17928	-	see also 10989 line
25350	CBX7	NM_175709.1	512	ggcccgaaaggcccaagtaac	17927	-	see also 10989 line
25351	CBX8	NM_020649.1	155	tacggaagacgcgcatggaatc	17930	-	see also 10990 line
25352	CBX8	NM_020649.1	1230	cacggaccaaggcttttttaag	17938	-	see also 10990 line
25353	ODYL	NM_004824.2	1590	acggttatgttcccaagataat	17964	-	see also 10991 line
25354	ODYL	NM_004824.2	1312	ccgttggcagcggtctctgtgt	17954	-	see also 10991 line
25355	ODYL2	NM_152342.1	903	cagtcagaacctggataacaatg	17981	-	see also 10992 line
25356	ODYL2	NM_152342.1	175	gagtatcttcogattggaagagg	17969	-	see also 10992 line
25357	GENPA	NM_001809.2	380	ctcgtgtgtggactcaattgg	17990	-	see also 10993 line
25358	GENPA	NM_001809.2	378	cactgtgtgtggactcaatt	17989	-	see also 10993 line

746

図46 (続き)

25359	CENPA	NM_001809.2	411	ggccctattggccctacagagg	17991	-	see also 10993 line
25360	CENPB	NM_001810.4	582	caccgagaccagctatagtagc	17994	-	see also 10994 line
25361	CHAF1A	NM_005483.1	263	aacgggaagagctccttagataa	18002	-	see also 10995 line
25362	CHAF1A	NM_005483.1	98	ccgttaagcgcctgaatttgt	17997	-	see also 10995 line
25363	CHAF1B	NM_005441.1	642	gtctcgcggtatcacagtata	18044	-	see also 10996 line
25364	CHAF1B	NM_005441.1	640	gggtctgcggtatcacagtata	18043	-	see also 10996 line
25365	CHD1	NM_001270.1	2241	ttctgttacccgggttaagaa	18129	-	see also 832 line
25366	CHD1	NM_001270.1	2514	ttcgttagtcgggaattgatt	18144	-	see also 832 line
25367	CHD1	NM_001270.1	859	tcgtccaaagcaactgttaag	18085	-	see also 832 line
25368	CHD2	NM_001271.1	1382	agcggctaaagacgttagttaca	18239	-	see also 10998 line
25369	CHD2	NM_001271.1	5732	tggggaccggcgacatatggatg	18343	-	see also 10998 line
25370	CHD5	NM_015557.1	5943	ggccctatgtaccgatattag	18377	-	see also 10999 line
25371	CHD5	NM_015557.1	370	cagtgtactctcccgataaaa	18351	-	see also 10999 line
25372	CHD6	NM_032221.3	6451	gccaaaggaccgggtataatta	18498	-	see also 9120 line
25373	CHD6	NM_032221.3	6450	ggccaaaggaccgggtataatt	18497	-	see also 9120 line
25374	CHD6	NM_032221.3	1533	ctcggagtataagaacagttaac	18401	-	see also 9120 line
25375	EZH1	NM_001991.2	2083	gacgcgaaaggctctatgacaaa	18558	-	see also 1278 line
25376	EZH1	NM_001991.2	2081	tcgacgcggaagggctctatgaca	18557	-	see also 1278 line
25377	HTATIP	NM_006388.2	801	caggacgggaagcgaaataatgaat	18568	-	see also 4476 line
25378	HTATIP	NM_006388.2	802	aggacgggaagcgaaataatgaatt	18569	-	see also 4476 line
25379	HTATIP	NM_006388.2	804	gacgggaagcgaaataatgaattgt	18570	-	see also 4476 line
25380	ING1L	NM_001564.1	559	gaccagtgaagccgtgatttat	18597	-	see also 11003 line
25381	ING1L	NM_001564.1	236	ctcgggagagctggacacaaata	18584	-	see also 11003 line
25382	MGC10561	NM_032647.2	142	cgcggctgtctctccacacataa	18605	-	see also 11004 line
25383	MPO	NM_000250.1	1606	ccacgtacagctctcacatga	18612	-	see also 11006 line
25384	MPO	NM_000250.1	1608	caagtaccgtctctacatgact	18613	-	see also 11006 line
25385	MYST1	NM_032188.1	563	ccatcgggaactacgaaattga	18627	-	see also 11007 line
25386	MYST1	NM_032188.1	561	tcacacatcgggaactacgaaatt	18626	-	see also 11007 line
25387	MYST1	NM_032188.1	852	acgttgagccgttctgtttttac	18635	-	see also 11007 line
25388	NCOA6	NM_014071.2	6056	accaggtacgcctgatagtaac	18757	-	see also 5477 line
25389	NCOA6	NM_014071.2	6105	ccgcgtaccgaccacacaaaagc	18759	-	see also 5477 line
25390	NCOA6	NM_014071.2	6104	tcgcgcgtaccgaccacacaaaag	18758	-	see also 5477 line
25391	NSBP1	NM_030763.1	129	ggcaggtgtcgtctgttgt	18769	-	see also 11009 line
25392	NSBP1	NM_030763.1	165	gaggtgaagcctaaagaacatc	18772	-	see also 11009 line
25393	PB1	NM_018165.2	2404	cgtacccgtcggcttgatttt	18839	-	see also 7297 line
25394	PB1	NM_018165.2	2407	taccgtcgcctgatttttca	18840	-	see also 7297 line
25395	RBP1L1	NM_016374.4	4150	aagtcgcgaacgcacacaaattc	18985	-	see also 6844 line
25396	RBP1L1	NM_016374.4	4153	tgcgcgaacgcacacaaatttc	18986	-	see also 6844 line
25397	SMARCC1	NM_003074.2	545	atctcgaatgagctgtaattgg	19002	-	see also 2062 line
25398	SMARCC1	NM_003074.2	1713	tggggactcgttaattacaagt	19042	-	see also 2062 line
25399	SMARCC2	NM_003075.2	1927	aggacagagtgcaatttgcatttt	19098	-	see also 2063 line
25400	SMARCE1	NM_003079.3	283	ctcttgatcacgattccaaaac	19106	-	see also 11014 line
25401	SMARCE1	NM_003079.3	904	aagcacagattcattacaatg	19108	-	see also 11014 line
25402	SUV39H1	NM_003173.1	1227	gggggtcgttattgaatgcaagt	19131	-	see also 11015 line

図46 (続き)

747

25403	SUV39H1	NM_003173.1	229	gtgaatggcgtgatatacaga	19118	-	see also 11015 line
25404	SUV39H2	NM_024670.3	1097	ctcgtctcccggaatgcatg	19157	-	see also 8695 line
25405	SUV39H2	NM_024670.3	309	ccggttaactgttcagaaattot	19133	-	see also 8695 line
25406	BRCA2	NM_000059.1	7852	acgtatgctgttctaaacattg	19383	-	see also 34 line
25407	BRCA2	NM_000059.1	9432	ttgtcttgagggtgacctaatag	19430	-	see also 34 line
25408	ERCC5	NM_000123.1	3438	aagaatacatgcgggtgattttt	19552	-	see also 98 line
25409	ERCC5	NM_000123.1	2733	ttggaccgaataagtaataaa	19530	-	see also 98 line
25410	HNRPDL	NM_005463.2	919	tgccagacagctcgcactatgg	19559	-	see also 3802 line
25411	IGHMBP2	NM_002180.1	282	ttccagtaacagcttacttct	19583	-	see also 11020 line
25412	IGHMBP2	NM_002180.1	712	cagcagtgtggtgagatcttc	19593	-	see also 11020 line
25413	KHDRBS1	NM_006559.1	1415	ggacaccatattggacgttatga	19631	-	see also 11021 line
25414	KHDRBS1	NM_006559.1	1416	agacccatattggacgttatga	19632	-	see also 11021 line
25415	PC4	NM_006713.2	267	tacgttagtttcgcgattttaa	19633	-	transcription_regulat or translation regulator
25416	PC4	NM_006713.2	268	acgttagtttcgcgattttaa	19634	-	see also 25415 line
25417	PCBP1	NM_006196.2	939	gacggatttcgcggaattgact	19642	-	see also 4288 line
25418	PCBP1	NM_006196.2	1084	ggcgccaaaggcgccaaacattaat	19648	-	see also 4288 line
25419	PIR51	NM_006479.2	276	aagctctaccagagagacttaga	19658	-	see also 11022 line
25420	PIR51	NM_006479.2	415	ctctcatatctctaatgtcaggt	19660	-	see also 11022 line
25421	POLG2	NM_007215.1	531	cagaaactacgcgaaactttg	19673	-	see also 5024 line
25422	POLG2	NM_007215.1	782	aagactgaagcttcgttagtatg	19684	-	see also 5024 line
25423	RAD23A	NM_005053.2	1125	aggcctatttcgcgttgaaaaa	19713	-	single-stranded DNA binding
25424	RAD23A	NM_005053.2	1126	ggcctatttcgcgttgaaaaa	19714	-	see also 25423 line
25425	RAD23A	NM_005053.2	1127	ggcctatttcgcgttgaaaaa	19715	-	see also 25423 line
25426	RAD23B	NM_002874.2	913	cagcttacgagaatagtaac	19726	-	see also 1914 line
25427	RAD23B	NM_002874.2	864	ttctcgttcaaaccttttgaag	19722	-	see also 1914 line
25428	RBMS1	NM_002897.2	1214	ggcgtcgagacgtctaatgacc	19759	-	see also 1936 line
25429	RBMS1	NM_002897.2	1034	gtcactacagcccgcatcaatga	19754	-	see also 1936 line
25430	RPA1	NM_002945.2	1784	tacaagcagcagctctcgaattaa	19815	-	see also 1989 line
25431	RPA1	NM_002945.2	137	ccattactacggggaatgtcc	19764	-	see also 1989 line
25432	RPA2	NM_002946.3	289	aacagtggatttcgaaagctatgg	19817	-	see also 1990 line
25433	RPA2	NM_002946.3	283	atgtggaacagtggtattcgaag	19816	-	see also 1990 line
25434	RPA3	NM_002947.2	1344	ttgatggaaccccttgatgaaga	19838	-	see also 11028 line
25435	RPA3	NM_002947.2	1287	ccacccggaaaaatgttttct	19837	-	see also 11028 line
25436	SMUG1	NM_014311.1	601	cactgttttcaccaatctatg	19845	-	-
25437	SMUG1	NM_014311.1	477	ccctccccaagacatctctaac	19843	-	see also 25436 line
25438	SMUG1	NM_014311.1	481	ccccaagacatctctaacaccc	19844	-	see also 25436 line
25439	SSBP1	NM_003143.1	166	ctgaatcgtgtgcaacttctgg	19851	-	see also 11029 line
25440	SSBP1	NM_003143.1	249	ttctctgcaactaatgagatgt	19852	-	see also 11029 line
25441	SSBP2	NM_012446.2	767	cccttaggacccacagaactatgg	19873	-	see also 5334 line
25442	SSBP2	NM_012446.2	620	ccccattgagatacctaataca	19869	-	see also 5334 line
25443	SSBP2	NM_012446.2	622	ccattgaggatacctaatacagg	19870	-	see also 5334 line
25444	SSBP4	NM_032627.1	278	aagttggcgtctacgtttatga	19881	-	see also 9263 line

748

図46 (続き)

25445	TAF15	NM_003487.2	870	aagacgggaaacaaatgataaa	19913	-	see also 2352 line
25446	TAF15	NM_003487.2	117	ggggtagcagcaaaagtatttc	19889	-	see also 2352 line
25447	WBP11	NM_016312.2	1789	gacccaaggcggatgatacaagt	19928	-	see also 11033 line
25448	WBP11	NM_016312.2	1786	agcgaccacgaaggcggatgataca	19927	-	see also 11033 line
25449	WBP11	NM_016312.2	1791	cccaaggcggatgatacaagtc	19929	-	see also 11033 line
25450	CGGBP1	NM_003663.2	383	acctctcgaacccgttctaaga	19931	-	see also 11034 line
25451	CGGBP1	NM_003663.2	426	ctggatcgagtcactgagtttgg	19932	-	see also 11034 line
25452	G22P1	NM_001469.2	2058	agcttcgcttcacatacagaagt	19942	-	see also 11035 line
25453	HLF	NM_002126.3	585	cacgaagacgcattagtaaga	19945	-	see also 1365 line
25454	IF116	NM_005531.1	2074	gagatcccaaaaggatgattag	19971	-	see also 11036 line
25455	IF116	NM_005531.1	2104	agcgtaactctaaatcaatca	19973	-	see also 11036 line
25456	IF116	NM_005531.1	1264	tacgaatcaggatgatagagg	19962	-	see also 11036 line
25457	MRE11A	NM_005590.2	1320	tggatcgagtagtaatacaaaa	20007	-	see also 11037 line
25458	MRE11A	NM_005590.2	1658	gaggaggtacgctgttcagaga	20013	-	see also 11037 line
25459	MTERF	NM_006980.2	475	cagctactcccgagaaatttca	20052	-	see also 11038 line
25460	MTERF	NM_006980.2	473	aacacgtactcccgagaatttt	20051	-	see also 11038 line
25461	MTERF	NM_006980.2	676	ccctcgtactcttccaatagt	20058	-	see also 11038 line
25462	NP220	NM_014497.2	2774	aacggtagctgttaaggtaata	20181	-	see also 5721 line
25463	NP220	NM_014497.2	1929	tcccgctaccatatagaattag	20149	-	see also 5721 line
25464	SAFB	NM_002967.2	1698	agcgatctcgagccacaaagtca	20292	-	see also 11040 line
25465	SAFB	NM_002967.2	1353	ggcgcaaggtgtgacaaatgc	20283	-	see also 11040 line
25466	XRCC5	NM_021141.2	1202	tggccatagttcgatgattat	20327	-	see also 8105 line
25467	XRCC5	NM_021141.2	970	gggttcctctatggaagtgtat	20320	-	see also 8105 line
25468	MBD2	NM_003927.3	745	tggcaagagcagatgtctact	20348	-	see also 2688 line
25469	MBD4	NM_003925.1	1557	atcgtctatatttctcaatcg	20396	-	see also 11043 line
25470	MBD4	NM_003925.1	1463	ccacgacgtaaaagcctttaaga	20389	-	see also 11043 line
25471	MBD4	NM_003925.1	1702	acgatcttcggcgaacaccatt	20398	-	see also 11043 line
25472	MLH3	NM_014381.1	730	gacgtatgtcccgattttgtca	20417	-	see also 11044 line
25473	MLH3	NM_014381.1	2268	ctggtatagacacgtttccaatg	20460	-	see also 11044 line
25474	ORC2L	NM_006190.3	637	atgctcctgagattacgataaac	20518	-	see also 4277 line
25475	ORC2L	NM_006190.3	641	tcctgagattacgataaacgttc	20519	-	see also 4277 line
25476	ORC3L	NM_012381.2	899	gactacggtactcgtataagctac	20606	-	see also 11046 line
25477	ORC3L	NM_012381.2	159	gacagtaagcttcgattcgaac	20574	-	see also 11046 line
25478	ORC4L	NM_002552.2	1007	ttgatcttcgttttaaatcgagt	20664	-	see also 1642 line
25479	ORC5L	NM_002553.2	234	tggaaagacctatgaacacaaa	20678	-	see also 1646 line
25480	TERF2	NM_005652.2	1182	aagaacaagcgcgtgacaataag	20732	-	see also 3921 line
25481	TERF2	NM_005652.2	568	catgtgctgaatccagtagaaaa	20724	-	see also 3921 line
25482	TERT	NM_003219.1	2960	aacatgcgtcgcaactcttgg	20757	-	see also 11050 line
25483	TERT	NM_003219.1	1981	cagaacgttcgcagagaaaaa	20748	-	see also 11050 line
25484	KIF2C	NM_006845.2	90	tcccggtctcgtatcaaatcc	20762	-	see also 11051 line
25485	KIF2C	NM_006845.2	89	ttccgggtctcgtatcaaatcc	20761	-	see also 11051 line
25486	KIF2C	NM_006845.2	1463	ccacgctgcttccaaattatt	20789	-	see also 11051 line
25487	ZW10	NM_004724.2	1208	tacgctcgttaacataatttca	20831	-	see also 11052 line
25488	ZW10	NM_004724.2	293	caggtatcaacccggtgaatttac	20813	-	see also 11052 line

25489	ZW10	NM 004724.2	282	gcgggaatcttcacgtatcaacc	20812	-	see also 11052 line
25490	TP53BP1	NM 005657.1	396	gacggtaatagtatgggttaataga	20875	-	see also 3924 line
25491	TP53BP1	NM 005657.1	2977	gacacagtaactactatttgatt	20931	-	see also 3924 line
25492	ZBP1	NM 030776.1	594	atgtgaacctggagacttgtagcagg	20991	-	see also 11055 line
25493	ZBP1	NM 030776.1	1275	gtgtccccgcagacacacaatcc	21002	-	see also 11055 line
25494	GGBP	NM 014593.1	329	gcgcgaacacgggacatcaactgc	21007	-	see also 5766 line
25495	3'HEXO	NM 153332.2	1030	cgcccaatagcagcttcgaatgc	21050	-	see also 11057 line
25496	3'HEXO	NM 153332.2	604	tacgcatactttagaataagaag	21032	-	see also 11057 line
25497	ABI-2	NM 005759.3	489	tigaacagcaccagcttgattatt	21067	-	see also 4011 line
25498	ABI-2	NM 005759.3	492	aacgaacagcttgattattaga	21068	-	see also 4011 line
25499	ABL1	NM 005157.2	848	tccatctgcctgagatacgaagg	21104	-	see also 11058 line
25500	ABL1	NM 005157.2	626	ctccgggtcttagctataatca	21097	-	see also 11058 line
25501	ABL1	NM 005157.2	949	ggcggagattggttcacatcatt	21109	-	see also 11058 line
25502	ACINUS	NM 014977.1	3253	acctaaactgacgtccacttag	21157	-	see also 11059 line
25503	ACINUS	NM 014977.1	3626	tggacccgtccctctgaactaag	21171	-	see also 11059 line
25504	ADPRT	NM 001618.2	2029	aacgcttgacactccaaaattt	21203	-	see also 11060 line
25505	ADPRT	NM 001618.2	274	gtgcaatcgcccatgtttgatgg	21179	-	see also 11060 line
25506	ADPRTL2	NM 005484.2	1701	gtccgtatgcggtacccttttaa	21279	-	see also 3814 line
25507	ADPRTL2	NM 005484.2	1699	aggtccgtatgcggtacccttta	21278	-	see also 3814 line
25508	AKAP8	NM 005858.2	447	agcgttcgagctctgactaccc	21285	-	see also 4073 line
25509	AKAP8	NM 005858.2	1505	ctggccctgcgacatgctaattcc	21297	-	see also 4073 line
25510	ALF	NM 006872.2	928	caccagacatgactgatatcca	21335	-	see also 11063 line
25511	ALF	NM 006872.2	1351	gacctgttgacacggataatgt	21343	-	see also 11063 line
25512	ALG1	NM 019109.2	340	ttgtacttaaggctgactgacttg	21349	-	see also 11064 line
25513	ALG1	NM 019109.2	591	ctgaacctgtgttaccatgctc	21354	-	see also 11064 line
25514	ALTE	NM 004729.1	1584	gagcccgagatcgacatgtttc	21359	-	see also 11065 line
25515	ALTE	NM 004729.1	1587	gcccggagatcgacatgtttcca	21361	-	see also 11065 line
25516	ANKRD1	NM 014391.2	783	atcgaaattccggtatgcttga	21371	-	see also 5654 line
25517	ANKRD1	NM 014391.2	1028	gagactgaacccgtatagaatga	21373	-	see also 5654 line
25518	APEX1	NM 001641.2	1166	tgtgttgccgcttgatctttt	21397	-	see also 1084 line
25519	APEX1	NM 001641.2	542	tgggcttcgagcctggattaaaga	21377	-	see also 1084 line
25520	APLP2	NM 001642.1	602	agggaaatgaccttatatagtctac	21415	-	see also 1087 line
25521	APLP2	NM 001642.1	1075	tgcgtgccttttatatatgttgg	21425	-	see also 1087 line
25522	POB48R	NM 018690.1	1976	gaccggagctctgaactacaga	21449	-	see also 11068 line
25523	POB48R	NM 018690.1	2347	agccttgggactctgaaagaaagg	21450	-	see also 11068 line
25524	ARAP3	NM 022481.4	1995	gacacgagctgttgaggatga	21468	-	see also 8403 line
25525	ARFGAP1	NM 018209.2	1053	gcggtctggaccactctccaaac	21509	-	see also 7321 line
25526	ARFGAP1	NM 018209.2	587	tctctgggacaaggctttgaaga	21505	-	see also 7321 line
25527	ARFGAP3	NM 014570.3	159	tccgctcggtcccaactacaag	21515	-	see also 5756 line
25528	ARFGAP3	NM 014570.3	931	atctaacgattagcctataagg	21539	-	see also 5756 line
25529	ASH1L	NM 018489.1	8365	cagtcctatcagctgttatctca	21793	-	see also 7495 line
25530	ASH1L	NM 018489.1	8506	tccgctcggtttctataatga	21801	-	see also 7495 line
25531	ATF2	NM 001880.2	1189	atctcgacccgagctatcaaac	21841	-	see also 1204 line
25532	ATF2	NM 001880.2	1152	gtcaggttagcggattgtagg	21840	-	see also 1204 line

750

図46 (続き)

25533	ATF5	NM_012088.2	601	ccacctgacctggagcgtatgg	21858	-	see also 5104 line
25534	ATM	NM_000051.2	4583	ttcggagacgtattattacttgg	21999	-	see also 18 line
25535	ATM	NM_000051.2	4580	ttcttgagacgtattattact	21998	-	see also 18 line
25536	AWP1	NM_019006.2	474	gtcagtagctctcgtgaatcttt	22126	-	see also 11076 line
25537	BACH2	NM_021813.1	2032	agcaactcgtgctcattcttattc	22150	-	see also 11077 line
25538	BACH2	NM_021813.1	900	ggcgcgtggtggacagacacaaaa	22131	-	see also 11077 line
25539	BANF1	NM_003860.2	683	tcgggaatgctgaagacacact	22171	-	- DNA binding
25540	BAZ1A	NM_013448.2	858	atcgttcgcgttaccatgaatt	22183	-	see also 5447 line
25541	BAZ1A	NM_013448.2	4007	ctgaatgcggttgcaagatag	22276	-	see also 5447 line
25542	BAZ2A	NM_013449.2	4952	ctgcttagcacacctaagtgtgc	22357	-	see also 5449 line
25543	BAZ2A	NM_013449.2	5493	atctacatttgcgagattatc	22367	-	see also 5449 line
25544	BAZ2B	NM_013450.1	4493	caactactatcgcgatagttoa	22463	-	see also 11080 line
25545	BAZ2B	NM_013450.1	4408	tcaccaatgaccagttactaaaa	22459	-	see also 11080 line
25546	BBX	NM_020235.2	1773	agcgtcatatataccattgaagc	22536	-	see also 7810 line
25547	BBX	NM_020235.2	1633	ttgaggatcccgagcattaaac	22530	-	see also 7810 line
25548	BDP1	NM_018429.1	2462	aagatcaatcgcgtaaagatttt	22617	-	see also 11082 line
25549	BDP1	NM_018429.1	1052	ttgagcgcggtttacaactaca	22575	-	see also 11082 line
25550	BHC80	NM_016621.2	781	gacactacactctcgtctgaag	22713	-	see also 6953 line
25551	BHC80	NM_016621.2	837	gcagagacactaccattgctatg	22714	-	see also 6953 line
25552	BLM	NM_000057.1	3568	accagcgatcgcgttattgtatg	22843	-	see also 30 line
25553	BLM	NM_000057.1	4273	ctccaccgaagcctataaataga	22863	-	see also 30 line
25554	BOC	NM_033254.2	820	gtccggtacagcgtcaacaaga	22867	-	see also 9387 line
25555	BOC	NM_033254.2	1845	ggcgccaactcctactatgtgg	22876	-	see also 9387 line
25556	BRD1	NM_014577.1	1823	accgtgtcgcctcttattcc	22928	-	see also 11086 line
25557	BRD1	NM_014577.1	3074	ctctgcgactcgcgttattatgc	22938	-	see also 11086 line
25558	BRD1	NM_014577.1	3577	ggcgcgtcggatcgcgtttgacc	22943	-	see also 11086 line
25559	BRP1	NM_032043.1	998	ctgaggtagtcggttaactcaac	22976	-	see also 9068 line
25560	BRP1	NM_032043.1	1001	aggtagtgcgttaactcaacaga	22977	-	see also 9068 line
25561	BRPF1	NM_004634.1	111	ggcgaaggctctacaaggttac	23076	-	see also 3148 line
25562	BS69	NM_006624.1	1426	ctccgtgcaactcagacaaga	23137	-	see also 4684 line
25563	BS69	NM_006624.1	844	tgcgaggatgctatatataagaca	23125	-	see also 4684 line
25564	G11orf13	NM_003475.2	146	atcgcaactagcccaagcaatagg	23143	-	see also 11090 line
25565	C11orf13	NM_003475.2	251	caaggccactgcggacagtttgc	23144	-	see also 11090 line
25566	G14orf106	NM_018353.2	1744	gactatatacaggcaacgtttata	23188	-	see also 11091 line
25567	G14orf106	NM_018353.2	1100	ctgcacaatttaacttacaact	23153	-	see also 11091 line
25568	G14orf146	NM_152447.2	1434	ggcgcgtactttgttcaattcc	23270	-	see also 9869 line
25569	G14orf146	NM_152447.2	1485	ctcattactcgtcaatacacatga	23271	-	see also 9869 line
25570	C20orf100	NM_032883.1	887	cgtgacgtgtccaaatcgtgg	23318	-	see also 11093 line
25571	C20orf100	NM_032883.1	818	gtcgccctacgcactctctttca	23316	-	see also 11093 line
25572	C20orf104	NM_016436.3	232	ggttggaacatcgtttatgatg	23324	-	see also 11094 line
25573	C20orf104	NM_016436.3	985	acgtctcctggcttgacaaaatt	23345	-	see also 11094 line
25574	C20orf179	NM_178477.1	249	ggcatgagctcgcgtcaattgt	23385	-	-
25575	C20orf179	NM_178477.1	248	agccatgagctcgcgtcaattgt	23384	-	see also 25574 line
25576	C20orf179	NM_178477.1	202	ctccgaacccattgagaaaaagg	23383	-	see also 25574 line

図46 (続き)

751

25577	C21orf127	NM_013240.2	290	gacagcagcgtgtaacaaagtgc	23389	-	see also 11095 line
25578	C21orf127	NM_013240.2	293	agcacgctgtaacaaagtgcaca	23390	-	see also 11095 line
25579	C21orf66	NM_013329.2	824	gagaacacgcggatagtttttc	23410	-	see also 5401 line
25580	C21orf66	NM_013329.2	1168	gactccggtactactgattgg	23419	-	see also 5401 line
25581	CACNA1A	NM_000068.2	4326	ccgggtgctacgacctcttaaaa	23544	-	see also 40 line
25582	CACNA1A	NM_000068.2	4112	tgcgatactttgactacgtttt	23541	-	see also 40 line
25583	CARHSP1	NM_014316.1	325	acgaggcactataaaatgic	23581	-	-
25584	CARHSP1	NM_014316.1	347	ctcattccaccacgaagtga	23582	-	see also 25583 line
25585	CARP-1	NM_018237.1	3468	aacttatcaggaatgagatga	23675	-	see also 7330 line
25586	CBF2	NM_005760.1	1625	gacaatatggatcgatattaca	23721	-	see also 4017 line
25587	CBF2	NM_005760.1	1288	ggctactctccgctcaaatatc	23710	-	see also 4017 line
25588	CBF2	NM_005760.1	288	tggcggaagtatacaaaagcttc	23682	-	see also 4017 line
25589	CDG5L	NM_001253.2	1945	accgccttaacagattacaga	23840	-	see also 11101 line
25590	CDG5L	NM_001253.2	292	gaggaataccgaggatgaatttc	23763	-	see also 11101 line
25591	CEBPB	NM_001806.2	489	aacgcgcgagagggaacaacatg	23857	-	see also 11102 line
25592	CEBPB	NM_001806.2	678	cagacaacgtacagtcacattagc	23863	-	see also 11102 line
25593	CENPC1	NM_001812.1	2452	ttcgtgattagtgagttactatc	23930	-	see also 11103 line
25594	CENPC1	NM_001812.1	2587	atggtaaatctaggtatacctct	23938	-	see also 11103 line
25595	CENTA1	NM_006869.1	1164	caagcccgagccgaagtcttctgt	23970	-	see also 4808 line
25596	CENTA1	NM_006869.1	1279	gagcgcaactcaagcataaacc	23976	-	see also 4808 line
25597	CENTA2	NM_018404.1	1202	aacggccttactgcatacaacaga	23995	-	see also 7449 line
25598	CENTA2	NM_018404.1	791	gcccgtctgcagttactcaaaaat	23988	-	see also 7449 line
25599	CENTB1	NM_014716.1	687	cggggagcggcagcaggtattgc	24003	-	see also 5909 line
25600	CENTB1	NM_014716.1	1708	agccctgggattcaagctaaatgc	24009	-	see also 5909 line
25601	CENTB2	NM_012287.3	1908	tcacacgggtcagcccaaatagttt	24068	-	see also 11107 line
25602	CENTB2	NM_012287.3	2343	gtcaccttggtacgttttagcaag	24081	-	see also 11107 line
25603	CENTB2	NM_012287.3	1170	gtggtctgcacacaaaagtgtg	24052	-	see also 11107 line
25604	CENTB5	NM_030649.1	1303	agcctgtgaatcagatctatga	24089	-	see also 11108 line
25605	CENTB5	NM_030649.1	1953	agcggcagctgaaccacaaagagaca	24093	-	see also 11108 line
25606	CENTD1	NM_015230.2	5193	aeggaagataaaacttcgaatcg	24239	-	see also 11109 line
25607	CENTD1	NM_015230.2	4347	aaggaacccgactgtagttat	24214	-	see also 11109 line
25608	CENTD2	NM_015242.2	851	accgcaggatcttaccatctatc	24256	-	see also 6286 line
25609	CENTD2	NM_015242.2	2430	ctggagcgcctaccctacaaagc	24274	-	see also 6286 line
25610	CENTG1	NM_014770.1	1208	taccacccagatttaacgatta	24297	-	see also 11111 line
25611	CENTG1	NM_014770.1	914	ctccgtctccaccgaatgttg	24293	-	see also 11111 line
25612	CENTG1	NM_014770.1	1209	accacccagatttaacgattac	24298	-	see also 11111 line
25613	CENTG2	NM_014914.1	1046	tacagtcgaatggcacaactatgc	24309	-	see also 11112 line
25614	CENTG2	NM_014914.1	1295	ccctggaagtgcctacctaattc	24312	-	see also 11112 line
25615	CENTG3	NM_031946.3	264	ctccgtaccggagcttaaaagtgg	24321	-	see also 11113 line
25616	CENTG3	NM_031946.3	262	cgctcgtaccggagcttaaaagt	24320	-	see also 11113 line
25617	CHO1	NM_001269.2	725	cgggacaataacgggtgtgtggtg	24339	-	see also 831 line
25618	CHD1L	NM_024568.1	1817	agggcgatcaactccgaataaaa	24379	-	see also 11115 line
25619	CHD1L	NM_024568.1	1819	ggccgataactccgaataaagg	24381	-	see also 11115 line
25620	CHRA1	NM_017444.3	353	ttaatgcctagccacattatcc	24384	-	see also 11116 line

752

図46 (続き)

25621	CHRA01	NM_017444.3	400	aagaaagtactgaattacagtg	24387	-	see also 11116 line
25622	CHTF18	NM_022092.1	1916	ctccgctcacagcagattcaacc	24395	-	see also 11117 line
25623	CHTF18	NM_022092.1	2462	gccgagatgccagtcacatctaca	24399	-	see also 11117 line
25624	CHTF18	NM_022092.1	2379	tacagcaccgctgaagaaagcaaca	24397	-	see also 11117 line
25625	GIC	NM_015125.2	2130	ctgaggcgtctccaaatgacaca	24409	-	see also 11118 line
25626	GIC	NM_015125.2	4385	gtcttgggagctagagtaga	24415	-	see also 11118 line
25627	CIP29	NM_033082.1	50	agctaaagctggcgaactaaag	24418	-	see also 11119 line
25628	CIP29	NM_033082.1	337	agggtctgaacattcaatgacc	24423	-	see also 11119 line
25629	GNTN1	NM_001843.2	1616	caagatctctacgcgaattatat	24478	-	see also 1191 line
25630	GNTN1	NM_001843.2	2402	tactggccgatgtgcataaag	24507	-	see also 1191 line
25631	COPEB	NM_001300.3	379	cagagcgagccctgctatgttc	24532	-	see also 1121 line
25632	COPEB	NM_001300.3	650	tgtgaagctcagggaataatgagc	24542	-	see also 1121 line
25633	GREB3	NM_006368.4	585	accgagcgcactgggaagtagatg	24546	-	see also 1122 line
25634	GREB3	NM_006368.4	633	ccagcgtcgttgacacatttca	24551	-	see also 1122 line
25635	GREB3L3	NM_032607.1	832	acgagagcgcagctgtaaaaaa	24566	-	see also 1123 line
25636	GREB3L3	NM_032607.1	357	tcccccgaggcagtgatgtgg	24562	-	see also 1123 line
25637	GREB3L4	NM_130898.2	369	ctccagaggttccggtaactagg	24569	-	see also 1124 line
25638	GREB3L4	NM_130898.2	1109	cagacctaattgctcaaaacttc	24574	-	see also 1124 line
25639	GREB5	NM_004904.1	359	agcgggaatatctcgtgcataat	24586	-	see also 3409 line
25640	CREB5	NM_004904.1	360	ggcgaatatctcgtgcataatg	24587	-	see also 3409 line
25641	CREB1	NM_004381.3	63	tctgacccgcagcgtttctca	24600	-	see also 2939 line
25642	CREB1	NM_004381.3	468	aaccgtccagatcaatgttatcc	24605	-	see also 2939 line
25643	CRY1	NM_004075.2	1014	gtggacaaccgcctctaacttat	24632	-	see also 2746 line
25644	CRY1	NM_004075.2	2007	ctgaggcaagccggttgatc	24663	-	see also 2746 line
25645	CSEN	NM_013434.3	377	ctctacagggggttttaagaatga	24676	-	see also 1128 line
25646	CSEN	NM_013434.3	373	gtctctacagggggttttaaga	24675	-	see also 1128 line
25647	D1S155E	NM_007158.2	1390	aacagaccgcagctgacaaatag	24705	-	see also 4961 line
25648	D1S155E	NM_007158.2	1946	gtcggacttttagtgtaatttc	24726	-	see also 4961 line
25649	DC8	NM_015471.2	244	atgcgcagtggaacttttgaatca	24738	-	see also 1130 line
25650	DC8	NM_015471.2	108	gccactcccgagagaagactttcg	24736	-	see also 1130 line
25651	DC8	NM_015471.2	587	gtcttgctgcattaatgaac	24745	-	see also 1130 line
25652	DDEF2	NM_003887.1	2835	ccctcttcgctgacatctacc	24793	-	see also 1131 line
25653	DDEF2	NM_003887.1	2386	ttctacgttcacgttgatgatg	24787	-	see also 1131 line
25654	DDEF2	NM_003887.1	1996	ggccgtcaaaagagagatattt	24777	-	see also 1131 line
25655	DDX20	NM_007204.3	2354	taagcctgttgatgatgtattt	24861	-	see also 5006 line
25656	DDX3X	NM_001356.2	1930	ggctcagattctagaatagtcg	24890	-	see also 901 line
25657	DDX3X	NM_001356.2	2027	atctcggctcgtgattttctaga	24895	-	see also 901 line
25658	DDX3Y	NM_004660.2	1139	acctcagatcacgtctatattg	24915	-	see also 3179 line
25659	DDX3Y	NM_004660.2	1373	tgaacacggagtgattcactta	24924	-	see also 3179 line
25660	DDX48	NM_014740.1	595	tgtctcgtgactacatgaatg	24939	-	see also 1134 line
25661	DDX48	NM_014740.1	702	ctcagggcgtgtttttgatag	24941	-	see also 1134 line
25662	DEAF1	NM_021008.2	1546	tgcagacatgaccttaagtgg	24974	-	see also 1135 line
25663	DEAF1	NM_021008.2	1929	aacgtcacatcccaaatagtg	24979	-	see also 1135 line
25664	DEDD	NM_004216.2	728	tgggggttcgggctgaactgc	24989	-	see also 1136 line

図46 (続き)

753

25665	DEDD	NM_004216.2	1002	agccatcaagctgctggttaaatg	24993	-	see also 11136 line
25666	DEDD2	NM_133328.2	398	gtctcagaacgctatagctatg	24994	-	see also 11137 line
25667	DEK	NM_003472.2	841	ctgtcagatgaactagtagtga	25011	-	see also 11138 line
25668	DEK	NM_003472.2	471	aacggatgaacttagaatactac	24997	-	see also 11138 line
25669	DHX9	NM_001357.2	2820	caogtagccctttttatcagtatt	25082	-	see also 902 line
25670	DHX9	NM_001357.2	2815	ctgatcacgtagccctttttatca	25081	-	see also 902 line
25671	DHX9	NM_001357.2	3441	agccagttagcccccgttaaatga	25107	-	see also 902 line
25672	DKFz4341 1930	NM_032255.1	305	gacgcaaaaggggggactgaaagt	25114	-	see also 11140 line
25673	DKFz4341 1930	NM_032255.1	1963	gtgcgttgagttattatcatct	25129	-	see also 11140 line
25674	DMAPI	NM_019100.3	763	ttgacctgcgtttgtgttct	25247	-	see also 11143 line
25675	DMAPI	NM_019100.3	633	tacccttgcgcaggttcaataa	25242	-	see also 11143 line
25676	DNAJC1	NM_022365.2	361	atcgtaagcttttcaacttta	25256	-	see also 8346 line
25677	DNAJC1	NM_022365.2	531	tactacagcgcggtagaaaaat	25262	-	see also 8346 line
25678	DNASE1L1	NM_006730.1	1000	tgcttcgagaactaaatcgattt	25294	-	see also 11145 line
25679	DNASE1L1	NM_006730.1	1241	caactctaagcgcgttagagaagg	25300	-	see also 11145 line
25680	DNASE1L1	NM_006730.1	1269	aacgcctctacagtggtttct	25301	-	see also 11145 line
25681	DNASE1L2	NM_001374.1	157	ttgcataogaggccttcaacatt	25303	-	see also 11146 line
25682	DNASE1L2	NM_001374.1	159	cgcataogaggccttcaacattca	25305	-	see also 11146 line
25683	DNASE1L3	NM_004944.1	215	atcaaacgccttgacatcact	25307	-	see also 11147 line
25684	DNASE1L3	NM_004944.1	600	acgcgtgaagcgcgagaatttc	25313	-	see also 11147 line
25685	DNASE2	NM_001375.1	621	caactaccctgggtcttaact	25319	-	see also 942 line
25686	DNMT1	NM_001379.1	1713	tcocgagtagtgcgccatatttg	25352	-	see also 949 line
25687	DNMT1	NM_001379.1	1714	cccgagtagtgcgccatatttg	25353	-	see also 949 line
25688	DNMT2	NM_004412.3	1183	gtgcagtagtagtctaaactaat	25433	-	see also 2956 line
25689	DNMT2	NM_004412.3	1180	aacgtgcagtagtagtctaaact	25432	-	see also 2956 line
25690	DNMT3B	NM_006892.3	1201	aagctgtctctctatcgaaagc	25465	-	see also 4823 line
25691	DNMT3B	NM_006892.3	1507	cccaagcgcctcaagacaaattg	25472	-	see also 4823 line
25692	DNMT	NM_004088.2	355	ctctggtgatgaatgcataag	25501	-	see also 11152 line
25693	DNMT	NM_004088.2	1327	ggccatcogtgggtatttgct	25521	-	see also 11152 line
25694	DOT1L	NM_032482.1	101	ggccgctgcgggtctacataaa	25532	-	see also 9213 line
25695	DOT1L	NM_032482.1	102	ggccgctgcgggtctacataaac	25533	-	see also 9213 line
25696	DPF1	NM_004647.1	585	ggcgtatgtgtgataagtttt	25567	-	see also 11154 line
25697	DPF1	NM_004647.1	776	aaccctcgtgtttacattcacg	25571	-	see also 11154 line
25698	DPF2	NM_006268.3	411	cccggtccccgagttgatgatg	25577	-	see also 4362 line
25699	DPF2	NM_006268.3	985	atcgagtgcaaatgtgcaatat	25584	-	see also 4362 line
25700	DR1	NM_001938.1	854	aaggccagttctgtttggaata	25594	-	see also 1236 line
25701	DRAP1	NM_006442.2	606	aacggtaggaggaacgaataag	25602	-	see also 11156 line
25702	DRF1	NM_025104.2	570	atcgccatgttgatcccaaaag	25605	-	see also 11157 line
25703	DRF1	NM_025104.2	571	tcggccatgttgatcccaaaag	25606	-	see also 11157 line
25704	DRIL2	NM_006465.1	760	aagagatctctcagagatttg	25629	-	see also 11158 line
25705	DRIL2	NM_006465.1	800	gacggtgatcctgaaggaaga	25630	-	see also 11158 line
25706	DRLM	NM_153757.1	337	cagaagcgtatgcgataagataga	25635	-	see also 11159 line

図46 (続き)

754

25707	DRLM	NM 153757.1	267	gccgaaatgacttattcagaga	25633	-	see also 11159 line
25708	EBF	NM 024007.2	1603	tggacaactggcgtgaatgtct	25693	-	see also 8555 line
25709	EBF	NM 024007.2	1325	aaggaacccaccatcgattatgg	25689	-	see also 8555 line
25710	EBF	NM 024007.2	1329	aaccacacatcgattatgttc	25690	-	see also 8555 line
25711	EBF2	NM 022659.1	697	tcacgcctcaacagctaat	25705	-	see also 11161 line
25712	EBF2	NM 022659.1	699	caagcctcaacagctaat	25706	-	see also 11161 line
25713	EBF2	NM 022659.1	1000	gccatgacggactgtgtgacc	25714	-	see also 11161 line
25714	ECE2	NM 014693.1	913	ccctctcgggattactactaa	25720	-	see also 11162 line
25715	ECE2	NM 014693.1	915	ctctgggattactactaa	25721	-	see also 11162 line
25716	EDF1	NM 003792.2	306	aggacctggccacgaaatcaat	25746	-	see also 11163 line
25717	EDF1	NM 003792.2	165	ctggccagacaaacacattct	25744	-	see also 11163 line
25718	EGR2	NM 000399.2	345	accgcaagcgtgacacaaat	25751	-	see also 11164 line
25719	EGR2	NM 000399.2	344	gaccgcaagcgtgacacaaat	25750	-	see also 11164 line
25720	EGR2	NM 000399.2	435	ggcagctcgtgacacattct	25753	-	see also 11164 line
25721	EIF4A1	NM 001416.1	494	ggcgtgtgttgatgtctaa	25764	-	see also 11165 line
25722	EIF4A1	NM 001416.1	520	ggatagctgtgtgtgtgtgtgt	25765	-	see also 11165 line
25723	EIF4A2	NM 001967.2	21	tgtgtgtgtgtgtgtgtgtgt	25769	-	see also 1245 line
25724	EIF4A2	NM 001967.2	23	gtgtgtgtgtgtgtgtgtgt	25770	-	see also 1245 line
25725	ELYS	NM 015446.1	5360	aggtcaacgtatccaaacgtga	25917	-	see also 6421 line
25726	ELYS	NM 015446.1	4563	aggaaagtagcgtgaactaaa	25890	-	see also 6421 line
25727	ENDOG	NM 004435.1	724	gaccgagctacacaaacgtct	25938	-	see also 11168 line
25728	ENDOG	NM 004435.1	730	cagctaccacaaacgtctgtct	25939	-	see also 11168 line
25729	EP400	NM 015409.2	5669	gacgtgggtgtgtgtgtgtgt	26010	-	see also 11169 line
25730	EP400	NM 015409.2	5848	cacagcgtgtgtgtgtgtgtgt	26015	-	see also 11169 line
25731	EP400	NM 015409.2	7255	ctcgtgtgtgtgtgtgtgtgt	26043	-	see also 11169 line
25732	ERCC4	NM 005236.1	2421	tgcacggcggtgtgtgtgtgt	26135	-	see also 3671 line
25733	ERCC4	NM 005236.1	248	acctcctcgtgtgtgtgtgtgt	26067	-	see also 3671 line
25734	ERN1	NM 001433.1	2753	tgcgttaattcagacacataaa	26192	-	see also 1002 line
25735	ERN1	NM 001433.1	1401	cccggtgtgtgtgtgtgtgtgt	26180	-	see also 1002 line
25736	EV1	NM 005241.1	777	cactcgtgtgtgtgtgtgtgt	26200	-	see also 3673 line
25737	EV1	NM 005241.1	1055	tggataaaacgtgtgtgtgtgt	26209	-	see also 3673 line
25738	EV1	NM 005241.1	780	tgcgtgtgtgtgtgtgtgtgt	26201	-	see also 3673 line
25739	EXO1	NM 003686.3	1631	tggaaacgagtgattgtgtgt	26320	-	see also 2505 line
25740	EXO1	NM 003686.3	793	accggtgtgtgtgtgtgtgtgt	26280	-	see also 2505 line
25741	EZH2	NM 004456.3	2388	atgtcggcgtgtgtgtgtgtgt	26409	-	see also 2990 line
25742	FALZ	NM 004459.5	7549	aacctcaaacgtgtgtgtgtgt	26577	-	see also 11175 line
25743	FALZ	NM 004459.5	1680	aggctcggcggtgtgtgtgtgt	26446	-	see also 11175 line
25744	FBXL11	NM 012308.1	3265	tgcacgtgtgtgtgtgtgtgt	26668	-	see also 11176 line
25745	FBXL11	NM 012308.1	1806	gacggtgtgtgtgtgtgtgtgt	26651	-	see also 11176 line
25746	FCRH3	NM 052939.2	2257	tggagatgcaaacggtgtgtgt	26706	-	see also 11177 line
25747	FCRH3	NM 052939.2	2259	ggatagcaaacggtgtgtgtgt	26707	-	see also 11177 line
25748	FLJ10876	NM 018254.2	557	aggctgtgtgtgtgtgtgtgt	26726	-	see also 7346 line
25749	FLJ10876	NM 018254.2	1122	caggctgtgtgtgtgtgtgtgt	26737	-	see also 7346 line
25750	FLJ12178	NM 025134.2	592	tacgtggactgtgtgtgtgtgt	26764	-	see also 11179 line

図46 (続き)

755

25751	FLJ12178	NM_025134.2	1956	tactacgtcgtaaaaaactatt	26805	-	see also 11179 line
25752	FLJ12178	NM_025134.2	588	ttcgtacgtggaactatataac	26762	-	see also 11179 line
25753	FLJ12800	NM_022903.2	900	ccaggtgtccggcgaatgaagg	26931	-	see also 11180 line
25754	FLJ12800	NM_022903.2	1384	tcggtgcataaaagtagatagg	26935	-	see also 11180 line
25755	FLJ13111	NM_025082.1	306	ctgaagaacatcctaataatgc	26942	-	see also 11181 line
25756	FLJ13111	NM_025082.1	915	ctggtagcctggagccaaattta	26948	-	see also 11181 line
25757	FLJ13213	NM_024755.1	748	ggccacgtgtagtagatcatagg	26967	-	see also 8732 line
25758	FLJ14260	NM_025027.2	1889	ttctataagcctgtacacatgc	26996	-	see also 11182 line
25759	FLJ14260	NM_025027.2	1924	atgtactcagccataatgtatg	26997	-	see also 11182 line
25760	FLJ14281	NM_024920.3	2342	atgtaaaaactaatgaagtac	27008	-	see also 11183 line
25761	FLJ14281	NM_024920.3	2594	tagaggtgtgaagctgatataa	27010	-	see also 11183 line
25762	FLJ20125	NM_017676.1	942	atgttagtcgaaatccttatat	27041	-	see also 7107 line
25763	FLJ20125	NM_017676.1	997	atgttgataatacaagtatttt	27043	-	see also 7107 line
25764	FLJ20203	NM_032292.3	130	gacctagatcagccgttaaac	27049	-	see also 11185 line
25765	FLJ20203	NM_032292.3	1524	tgcatctcgaacggtttaaga	27077	-	see also 11185 line
25766	FLJ21439	NM_025137.2	5883	aagtagagtagccggtatttc	27247	-	see also 11186 line
25767	FLJ21439	NM_025137.2	925	aggacctaaaggcgtagatgaag	27118	-	see also 11186 line
25768	FLJ23017	NM_022840.2	1884	aagccctacaaaggtcttatact	27316	-	see also 8492 line
25769	FLJ23017	NM_022840.2	1886	ggcctacgaaggtcttatactgg	27317	-	see also 8492 line
25770	FLJ23119	NM_024692.2	3889	ggcgaagtcattccggtttaaaa	27375	-	see also 11188 line
25771	FLJ23119	NM_024692.2	327	gtcgggacgacctggattaat	27328	-	see also 11188 line
25772	FLJ23436	NM_024671.2	848	gtctacacccgagttgagatgc	27387	-	see also 11189 line
25773	FLJ23436	NM_024671.2	322	atgaagtcgaagagataaccattt	27380	-	see also 11189 line
25774	FLJ36070	NM_182574.1	875	cagttcgtgggacccaagtctatg	27390	-	see also 10271 line
25775	FLJ38964	NM_173527.1	163	cagatggcacgcctactaaagaag	27393	-	see also 10080 line
25776	FLJ38964	NM_173527.1	166	atggcacgcctactaaagaagtc	27394	-	see also 10080 line
25777	FOS	NM_005252.2	224	cggggatagccctctcttactacc	27402	-	see also 11192 line
25778	FOS	NM_005252.2	653	agcggagacagaccacac'agaag	27407	-	see also 11192 line
25779	FOSB	NM_006732.1	647	accctctcgcgagttcacaatc	27410	-	see also 11193 line
25780	FOSB	NM_006732.1	646	caccctctcgcgagttcacaat	27409	-	see also 11193 line
25781	FUS	NM_004980.1	1461	ctctcacatggggggtaactacg	27434	-	see also 11194 line
25782	FUS	NM_004980.1	1026	aacggacagcccatgatttaatt	27427	-	see also 11194 line
25783	GASCI	NM_015081.1	3263	ctgtataccgcacactttttgaag	27506	-	see also 6215 line
25784	GASCI	NM_015081.1	2727	tacatgtcttgacataaaggtca	27483	-	see also 6215 line
25785	GASCI	NM_015081.1	2988	gtggcccgatggcaaacctctatg	27490	-	see also 6215 line
25786	GCM1	NM_003843.1	1065	tcggaggtctactctgataatgg	27519	-	see also 11196 line
25787	GCM1	NM_003843.1	627	cacagcggcgcgctttatatttt	27511	-	see also 11196 line
25788	GCM1	NM_003843.1	628	acgacggacgctttatttttc	27512	-	see also 11196 line
25789	GCM2	NM_004752.1	507	tggcaacgcgacttttttcaagg	27537	-	see also 11197 line
25790	GCM2	NM_004752.1	1526	tgggtcgcagtcgaagtaactoa	27564	-	see also 11197 line
25791	GFI1	NM_005263.1	1193	aacggagctttgactgaagtc	27576	-	see also 11198 line
25792	GFI1	NM_005263.1	617	tgccttcaaacgcgtactatgg	27574	-	see also 11198 line
25793	GIOT-1	NM_153257.1	1625	ggcgtttaatcatagattacaac	27588	-	see also 11199 line
25794	GIOT-1	NM_153257.1	1137	aggcatcgctcacatcttactat	27584	-	see also 11199 line

756

図46 (続き)

25795	GI1	NM_014030.1	1632	ggagcagcagccatctattoagt	27603	-	see also 11200 line
25796	GI1	NM_014030.1	1756	ggcggccacaggaagctttcc	27604	-	see also 11200 line
25797	GI2	NM_014776.2	315	ggacctgcgtctattatgagtg	27610	-	see also 11201 line
25798	GI2	NM_014776.2	332	gagtgaagagagtaaaagtaac	27612	-	see also 11201 line
25799	GI1	NM_005269.1	3161	ctccgaagcagagtgatgaac	27686	-	see also 11202 line
25800	GI1	NM_005269.1	1008	gtcactactcgcctcgaaacc	27660	-	see also 11202 line
25801	GI1	NM_005269.1	3162	tcocgaagacaggtatgaacc	27687	-	see also 11202 line
25802	GI4	NM_138465.2	54	ggcagccctaggagacattcagg	27690	-	see also 11203 line
25803	GL14	NM_138465.2	537	tgccagactggaggtcaacttg	27691	-	see also 11203 line
25804	GMEB1	NM_006582.2	617	tggaactccggacagattgattt	27702	-	see also 11204 line
25805	GMEB1	NM_006582.2	616	atggactccggacagattgattt	27701	-	see also 11204 line
25806	GMEB2	NM_012384.2	611	ggcgacactgacggagaataaca	27716	-	see also 11205 line
25807	GMEB2	NM_012384.2	1053	cccacgtcggcggagacattcc	27726	-	see also 11205 line
25808	GTF2F1	NM_002096.1	476	ctcgggtcaacggcaaatcagg	27737	-	see also 11206 line
25809	GTF2F1	NM_002096.1	221	gtcgttcgagttcctaagaatac	27733	-	see also 11206 line
25810	GTF2F1	NM_002096.1	225	ttcgaagttcctaagaatacaacc	27735	-	see also 11206 line
25811	GTF2F2	NM_004128.1	639	aagcgagctcgagctgataaaca	27755	-	see also 11207 line
25812	GTF2F2	NM_004128.1	580	aacctgttgctgaatacaatac	27750	-	see also 11207 line
25813	GTF3A	NM_002097.1	749	cacgagggctctatgtatgtaaaa	27772	-	see also 11208 line
25814	GTF3A	NM_002097.1	746	ggccacagagggctctatgtatga	27771	-	see also 11208 line
25815	GTF3C1	NM_001520.1	1935	caccaatcttcgcttaatacgaga	27827	-	see also 11209 line
25816	GTF3C1	NM_001520.1	911	ggctgtcggaagggacgtttaag	27811	-	see also 11209 line
25817	GTF3C1	NM_001520.1	784	ctcctactgaacccggtttcatgt	27808	-	see also 11211 line
25818	H1FOO	NM_153833.1	218	cacgtctggttgacgactcatacagc	27881	-	see also 11211 line
25819	H1FOO	NM_153833.1	227	ggcagctcatcaagctctacatcc	27882	-	see also 11211 line
25820	H1FX	NM_006026.2	456	ggcgtttgccccatctaaagaaga	27890	-	see also 11212 line
25821	H2AFY	NM_004893.2	1211	aacgggtgactctgtgctttttg	27905	-	see also 11213 line
25822	H2AFY	NM_004893.2	1236	agcgagagtataggcactctatgt	27907	-	see also 11213 line
25823	H2AFY2	NM_018649.1	1049	ctcagtgagggtcgcgacaaatgt	27923	-	see also 11214 line
25824	H2AFY2	NM_018649.1	1011	tggactcgcagcccaaatgttga	27922	-	see also 11214 line
25825	HBP1	NM_012257.2	535	atcgagacaggtccacaaagtcc	27933	-	see also 5233 line
25826	HBP1	NM_012257.2	1310	ggcagggctggtgcactttgtct	27959	-	see also 5233 line
25827	HBXAP	NM_016578.3	1795	accgagtcgtgtaccatgaagaag	28006	-	see also 11217 line
25828	HBXAP	NM_016578.3	910	aaccgttctacagccaattgtct	27978	-	see also 11217 line
25829	HBXAP	NM_016578.3	3944	ggcgaagcacagcagcagatttca	28048	-	see also 11217 line
25830	HELLS	NM_018063.3	1196	ggcgtctaatccaggaggttaaaa	28092	-	see also 7231 line
25831	HELLS	NM_018063.3	701	ttgacccagctccggaagtgaat	28074	-	see also 7231 line
25832	HEMK	NM_016173.1	844	acctgacatgacctcagaagaagg	28139	-	see also 11219 line
25833	HEMK	NM_016173.1	814	ttcgggttcagacagcagattgg	28138	-	see also 11219 line
25834	HES1	NM_005524.2	302	cacgaacccggataaaccaaga	28146	-	transcription_regulat or
25835	HES1	NM_005524.2	300	aacacagacaccgataaaccaaaa	28145	-	DNA binding
25836	HES1	NM_005524.2	297	gtcaacacgacaccggataaac	28144	-	see also 25834 line see also 25834 line

図46 (続き)

757

25837	HES7	NM_032580.1	8	cccgagatcagctgagataagg	28151	-	transcription_regulat	-
25838	HES7	NM_032580.1	260	cgctccagctgactactgttc	28153	-	see also 25837 line	-
25839	HES7	NM_032580.1	155	agctggagaaagcgagattg	28152	-	see also 25837 line	-
25840	HIC2	NM_015094.1	1536	tctacaggagcaactgtatgt	28157	-	transcription_regulat	-
25841	HIC2	NM_015094.1	1535	gtctacaggagcaactgtatg	28156	-	or	-
25842	HIC2	NM_015094.1	1431	aacggcaagatgcaagtgaaga	28155	-	see also 25840 line	-
25843	HIK1	NM_152696.3	3101	tggcaccgcactatcattgtc	28227	-	see also 25840 line	-
25844	HIST1H1A	NM_005325.2	447	aaggcaacgggtgcataaataa	28236	-	see also 9919 line	-
25845	HIST1H1A	NM_005325.2	448	agcacaacgggtgcataaataa	28237	-	see also 11222 line	-
25846	HIST1H1A	NM_005325.2	500	gagcgtcaagactcgaataaagg	28240	-	see also 11222 line	-
25847	HIST1H1B	NM_005322.2	541	ggcggctggcgtcaataaagg	28246	-	see also 11223 line	-
25848	HIST1H1B	NM_005322.2	586	ggcggctggcgaacccgaataagg	28247	-	see also 11223 line	-
25849	HIST1H1C	NM_005319.3	314	ggcactctggcgaacccgaataagg	28251	-	see also 11224 line	-
25850	HIST1H1C	NM_005319.3	412	ggcggcgaacccgaacccgaataagg	28252	-	see also 11224 line	-
25851	HIST1H1D	NM_005320.2	169	accccaagtatcgaactatca	28256	-	see also 11225 line	-
25852	HIST1H1D	NM_005320.2	545	accgctgctgggacccaagaagt	28259	-	see also 11225 line	-
25853	HIST1H1E	NM_005321.2	358	ggcggctggcgggttcctcaact	28265	-	see also 11226 line	-
25854	HIST1H1E	NM_005321.2	176	cggttcgagctcaactactaaa	28262	-	see also 11226 line	-
25855	HIST1H1T	NM_005323.3	376	tagtaagaggtgatctcaaat	28272	-	see also 11227 line	-
25856	HIST1H1T	NM_005323.3	600	ggccttcgaagtcaaaattgacc	28277	-	see also 11227 line	-
25857	HIST1H2A	NM_170745.2	206	atcgctctcggatatacaaaaa	28284	-	see also 11228 line	-
25858	A	NM_170745.2	100	ctgcttcgtaagggaactatgc	28280	-	see also 11228 line	-
25859	HIST1H2A	NM_021052.2	84	aagctcgggcaaaagctaaaacg	28290	-	DNA binding	-
25860	M	NM_003514.2	93	ctctagagctggggtccaatttc	28292	-	E2F-1/DP-1 complex	-
25861	HIST1H2B	NM_170610.2	1	atcgcgagaggtgctcatataaagg	28293	-	see also 11230 line	-
25862	HIST1H2B	NM_170610.2	96	gggaccccgtaaggaggtatt	28294	-	see also 11230 line	-
25863	HIST1H2B	NM_021062.2	42	ttctaagaagctatcactaagg	28299	-	DNA binding	-
25864	HIST1H2B	NM_021058.3	238	ttcggttggaacgacatttcg	28300	-	DNA binding	-
25865	HIST1H3A	NM_003529.2	174	cactgaactgctatcgtgaac	28304	-	DNA binding	-
25866	HIST1H3A	NM_003529.2	172	tcactgaactgctattcgttaa	28303	-	see also 25865 line	-
25867	HIST1H3C	NM_003531.2	52	cgaacgagctgctactaataagc	28305	-	see also 11233 line	-
25868	HIST1H4A	NM_003538.3	167	gcggggtgctcaagggtttttg	28308	-	see also 11234 line	-
25869	HIST1H4A	NM_003538.3	168	cgggggtgctcaagggtttttg	28309	-	see also 11234 line	-
25870	HIST1H4D	NM_003539.3	164	ctcgggaggtgctgaaagttttc	28310	-	-	-
25871	HIST2H2A	NM_175065.2	271	gacgaagagctcaacaagttact	28312	-	-	-

758

図46 (続き)

25872	HIST2H2A B	NM_175065.2	368	gtcaagaagcctggcaagaacaag	28313	-	see also 25871 line	-
25873	HIST2H2A C	NM_003517.2	335	tcaggcggcttctgttaccaaag	28315	-	-	DNA binding
25874	HIST2H2A C	NM_003517.2	331	aacatccaggccgtcttcttacc	28314	-	see also 25873 line	-
25875	HIST3H2B B	NM_175055.2	51	gcgcccaagaagggttctaaaaa	28316	-	-	-
25876	HIVEP1	NM_002114.1	5860	gtgtttatagaacctataagtga	28455	-	see also 1362 line	-
25877	HIVEP1	NM_002114.1	3182	ggcgagggacaattgttgatgt	28387	-	see also 1362 line	-
25878	HKR1	NM_181786.2	1290	aagtcgaacctctttacacatca	28513	-	see also 11237 line	-
25879	HKR1	NM_181786.2	1609	gggtcaacttttagctggaataca	28518	-	see also 11237 line	-
25880	HMG2L1	NM_005487.2	1090	ttcagggttgaaacctattctgg	28540	-	see also 3815 line	-
25881	HMG2L1	NM_005487.2	1098	ttgaacctattctggtagaatca	28541	-	see also 3815 line	-
25882	HMG4L	NM_178467.1	457	aagttggcgccgcacaaaaggctc	28560	-	see also 11239 line	-
25883	HMGN3	NM_004242.2	220	ttgattccaaagttaactaaacagg	28562	-	see also 11240 line	-
25884	HNRPD	NM_002138.2	1081	cagcaacagtgaggatctagcagg	28583	-	see also 1368 line	-
25885	HNRPK	NM_002140.2	458	cccgagcgcgatattgagtatca	28586	-	see also 11242 line	-
25886	HNRPK	NM_002140.2	457	gcocggagcgcattattgagtatc	28585	-	see also 11242 line	-
25887	HNRPU	NM_004501.2	1237	ttcgtattggctgctgactaatc	28600	-	see also 3053 line	-
25888	HNRPU	NM_004501.2	2399	tgtgtggaatcgggtatccatcac	28633	-	see also 3053 line	-
25889	HP1-BP74	NM_016287.1	188	ccgattctcgtaactgtgaattc	28644	-	see also 6786 line	-
25890	HRB	NM_004504.3	1272	tgcgtatacttcacaaagtaag	28694	-	see also 3058 line	-
25891	HRB	NM_004504.3	203	gcocacactagtttaacatgacg	28669	-	see also 3058 line	-
25892	HRBL	NM_006076.3	324	ccctcattgtgtcaagtcaatc	28705	-	see also 11246 line	-
25893	HRBL	NM_006076.3	327	ctcatgtgtcaagtcaatctcc	28706	-	see also 11246 line	-
25894	HSPC133	NM_014168.1	429	gtccaaagttaattcgatcacagtat	28720	-	see also 11247 line	-
25895	HSPC133	NM_014168.1	178	gcgcacattgcagcaatgtatgc	28712	-	see also 11247 line	-
25896	HSPC133	NM_014168.1	278	agcatgggaactgcaatgttagg	28716	-	see also 11247 line	-
25897	HT001	NM_014065.2	1246	ccctaccgaagcactagataatg	28746	-	see also 11249 line	-
25898	HT001	NM_014065.2	1245	acctaccgaagcactagataat	28745	-	see also 11249 line	-
25899	HTR3A	NM_000869.1	687	ctgtagcctcgacatctacaact	28784	-	see also 11250 line	-
25900	HTR3A	NM_000869.1	644	aaggcgaagtcaagaactacaag	28781	-	see also 11250 line	-
25901	IDAX	NM_025212.1	196	ccgagcgcgtggggacttttcc	28794	-	see also 11251 line	-
25902	IDAX	NM_025212.1	197	ccgagcgcgtggggacttttcc	28795	-	see also 11251 line	-
25903	ILF3	NM_004516.2	267	atcgtccaatgcgaatttttgt	28812	-	see also 11252 line	-
25904	ILF3	NM_004516.2	269	gctccaatgcgaatttttgtga	28813	-	see also 11252 line	-
25905	ING1	NM_005537.3	1579	tgcgtgggctccaatcataaac	28850	-	see also 11253 line	-
25906	ING1	NM_005537.3	1576	tgtgtcgtggggctcaatcataa	28848	-	see also 11253 line	-
25907	ING3	NM_019071.2	236	tgaatggaatcaactagaacaaa	28856	-	see also 7687 line	-
25908	ING4	NM_016162.2	170	ttggccactggagtatatgagttag	28894	-	see also 11255 line	-
25909	ING4	NM_016162.2	384	ttgaagcaagtgaactatgacagc	28898	-	see also 11255 line	-
25910	INSM1	NM_002196.1	473	agcacgagagacacaaagtacttc	28902	-	see also 11256 line	-
25911	INSM1	NM_002196.1	1595	gccttacggcgccacatcaacaag	28904	-	see also 11256 line	-

図46 (続き)

759

25912	JRLB	NM_005848.1	2309	agcgtgaagtacgacttataga	28984	-	see also 11257 line
25913	JRLB	NM_005848.1	4694	tgctctcgtgtagacttctga	29062	-	see also 11257 line
25914	JADE1	NM_024900.2	396	tccggatgagtactatgttgg	29112	-	see also 11258 line
25915	JADE1	NM_024900.2	395	atcggatgagtactatgttgg	29111	-	see also 11258 line
25916	JDP2	NM_130469.2	484	agcccgatccgggaacaagaaga	29141	-	see also 9546 line
25917	JDP2	NM_130469.2	486	cccgatccgggaacaagaagaag	29142	-	see also 9546 line
25918	JMJ	NM_004973.2	2773	agccgaatccggagcaagact	29174	-	see also 3457 line
25919	JMJ	NM_004973.2	1799	agcgcctctgtgaaaaatgttc	29164	-	see also 3457 line
25920	JMJD2	NM_014663.1	443	ctgtaccacacgtatagtgtg	29202	-	see also 5842 line
25921	JMJD2	NM_014663.1	447	acccacacgtatagtgttga	29203	-	see also 5842 line
25922	JRK	NM_003724.1	1251	ttccgattgttccatcatct	29262	-	see also 11262 line
25923	JRK	NM_003724.1	984	gtccgcccggagcaggtttacaacg	29260	-	see also 11262 line
25924	JRKL	NM_003772.2	812	tgccgcaagttcggagagtattta	29292	-	see also 11263 line
25925	JRKL	NM_003772.2	70	gacggaggtttccacaacact	29288	-	see also 11263 line
25926	KCNMA1	NM_002247.2	859	tacttcggttcggtttatgc	29331	-	see also 1439 line
25927	KCNMA1	NM_002247.2	3142	atgagcgcgactacttccaatga	29389	-	see also 1439 line
25928	KJAA0211	NM_014630.1	3941	ttcagtcgcgcaaatgtgttt	29430	-	see also 5798 line
25929	KJAA0211	NM_014630.1	3943	cagtcgcgcaaatgtgtttgc	29431	-	see also 5798 line
25930	KJAA0211	NM_014630.1	1263	tccggatgccactgattcttcg	29404	-	see also 5798 line
25931	KJAA0222	NM_014643.1	2504	acctcatcgccgtgatttaagt	29442	-	see also 5815 line
25932	KJAA0222	NM_014643.1	1333	aagtcgcggaacctgtttacaaa	29436	-	see also 5815 line
25933	KJAA0296	NM_014699.1	3694	ctgctgctaccgttaactatct	29478	-	see also 5895 line
25934	KJAA0296	NM_014699.1	900	ttcgggtacgtgggaagatctgc	29461	-	see also 5895 line
25935	KJAA0352	NM_014830.1	1336	ttcacccgagcggatgggaatatt	29501	-	see also 6040 line
25936	KJAA0352	NM_014830.1	1538	ctgcgacagcgtccacttaacc	29505	-	see also 6040 line
25937	KJAA0478	NM_014870.2	3522	agccattccgggtctgtactgt	29545	-	see also 11269 line
25938	KJAA0478	NM_014870.2	3254	aeggcctaccagcaatctcttgc	29538	-	see also 11269 line
25939	KJAA0628	NM_014789.1	743	gactctactgtgtaatgtgt	29550	-	see also 11270 line
25940	KJAA0628	NM_014789.1	1680	tagtcagtagggagagatttta	29558	-	see also 11270 line
25941	KJAA0945	NM_014952.1	1654	ctgtgctgggtgcccatcaaaa	29561	-	see also 11271 line
25942	KJAA0945	NM_014952.1	2144	gacacgcctcttccaaatcagg	29569	-	see also 11271 line
25943	KJAA1111	NM_015107.1	1480	tgccgaacgtacagctcattaaa	29604	-	see also 6248 line
25944	KJAA1111	NM_015107.1	2094	aaggcaccctgataataagacc	29619	-	see also 6248 line
25945	KJAA1196	NM_020713.1	1005	caacacccctgcacaaatgtgc	29637	-	see also 11273 line
25946	KJAA1196	NM_020713.1	974	cagtcagcagggcccatgtctatc	29636	-	see also 11273 line
25947	KJAA1259	NM_017553.1	4645	tacgggtacacccgtgtataaagg	29739	-	see also 11274 line
25948	KJAA1259	NM_017553.1	2658	gtgtaatcacccggaggtatttg	29713	-	see also 11274 line
25949	KJAA1333	NM_017769.2	391	accccgatgataaacgaagtatc	29746	-	see also 11275 line
25950	KJAA1333	NM_017769.2	392	cccgatgataaacgaagtatca	29747	-	see also 11275 line
25951	KJAA1706	NM_030636.1	1796	gtcacgacgtacccctgttaac	29808	-	see also 11276 line
25952	KJAA1706	NM_030636.1	2216	tagccgaggttccactgaaaag	29814	-	see also 11276 line
25953	KJAA1706	NM_030636.1	1007	ccctcaccacaggtttaacatc	29804	-	see also 11276 line
25954	KJAA1750	NM_033512.1	1000	atcgcaaccgcgtttccaaat	29825	-	see also 11277 line
25955	KJAA1750	NM_033512.1	486	accgtgggaagggccgaaaatgc	29819	-	see also 11277 line

760

図46 (続き)

25956	KIAA1946	NM_177454.2	755	aacattactggctatcttaccgt	29845	-	see also 10164 line
25957	KIAA1946	NM_177454.2	346	gaaggttccagtgctgtatttta	29833	-	see also 10164 line
25958	KIF22	NM_007317.1	1124	aggtgatcaatcgcccttttacc	29911	-	see also 11279 line
25959	KIF22	NM_007317.1	103	cgctgtcggctaaagcaagattgg	29903	-	see also 11279 line
25960	KIF4A	NM_012310.2	270	gccactcaataaaagggtatttta	29919	-	microtubule motor
25961	KLIF14	NM_138693.1	686	ggctgactcgacagaagttt	29920	-	transcription_regulat
25962	KLIF14	NM_138693.1	831	cccaactcatccagatgata	29921	-	or
25963	KLIF15	NM_014079.2	300	ccctcaaccctctctgaagatga	29922	-	see also 25961 line
25964	KLIF15	NM_014079.2	1343	tcctgtgtcgagagaagttcg	29926	-	see also 11280 line
25965	KLIF15	NM_014079.2	1133	agcgcagaaactcatcaaatgc	29925	-	see also 11280 line
25966	KLIF5	NM_001730.2	1310	ttctaaactgggaattcacaatc	29951	-	see also 11282 line
25967	KLIF5	NM_001730.2	694	aaagggtaccttaacagatcaac	29935	-	see also 11282 line
25968	KLHL10	NM_152467.1	1291	ggctacgtgcgtctaaacactgc	29991	-	see also 9876 line
25969	KLHL10	NM_152467.1	187	atctcaacgagcttagactaga	29959	-	see also 9876 line
25970	KNSL7	NM_020242.1	358	gtcttgatgagcaggttataatg	30018	-	see also 7817 line
25971	KNSL7	NM_020242.1	95	gagttacgcagcggcgacaaatgg	30011	-	see also 7817 line
25972	LAF4	NM_002285.1	2973	gcctgcagtcgcgattatttta	30155	-	see also 11285 line
25973	LAF4	NM_002285.1	1427	ctgaaccggcctctctaaacaag	30133	-	see also 11285 line
25974	LBR	NM_002296.2	1088	ggcgtagagtttcttaactagt	30196	-	see also 1473 line
25975	LBR	NM_002296.2	399	tcctctggtgcacacccctaaag	30179	-	see also 1473 line
25976	LCX	NM_030625.1	4476	agctgtcttcatagagttatata	30373	-	see also 11287 line
25977	LCX	NM_030625.1	6309	gagcaaccacccgaataatccc	30423	-	see also 11287 line
25978	LDB1	NM_003893.3	920	tgctacggagctgtactatgttc	30434	-	see also 2647 line
25979	LDB1	NM_003893.3	650	tccatgtatcgcctcatatacc	30430	-	see also 2647 line
25980	LEF1	NM_016269.2	981	gagttattccgggtacataatga	30489	-	see also 11290 line
25981	LEF1	NM_016269.2	784	ccgaagagagaagcgcatttagc	30484	-	see also 11290 line
25982	LENEP	NM_018655.1	96	tgccgggtgcctgtcctaagatg	30516	-	DNA binding
25983	LHFP	NM_005780.1	492	accttcggagagtgctcatatcc	30518	-	see also 11291 line
25984	LHFP	NM_005780.1	422	ctctgcgtgggtgtctttatgc	30517	-	see also 11291 line
25985	LIG1	NM_000234.1	2581	cgcccttaagtcggatagatgg	30536	-	see also 172 line
25986	LIG1	NM_000234.1	1650	tcctgacctggaccgaattatcc	30527	-	see also 172 line
25987	LIG1	NM_000234.1	124	cagcgaagtatcatgtcatattt	30521	-	see also 172 line
25988	LIG3	NM_002311.2	850	tacggaggtttcgaagattatgc	30547	-	see also 1480 line
25989	LIG3	NM_002311.2	1933	ttccaaaccggatcatgttctca	30575	-	see also 1480 line
25990	LIG4	NM_002312.2	2711	ttcgacgcacacccgtttatttg	30686	-	see also 1484 line
25991	LIG4	NM_002312.2	2210	cactaaccttaactaactgaatga	30665	-	see also 1484 line
25992	LIN28	NM_024674.3	722	tgctccggagggcacagattga	30706	-	see also 11294 line
25993	LIN28	NM_024674.3	502	cagaagcgcagatcaaaaggaga	30703	-	see also 11294 line
25994	LOC11288	NM_138415.1	1008	gcttggttaaccacggaacattg	30708	-	see also 11295 line
25995	LOC11288	NM_138415.1	1512	tggtcgaagcagtcagaaatgc	30710	-	see also 11295 line
25996	LOC11595	NM_138783.1	1604	ggcggcacatgatcatcattca	30719	-	see also 11296 line
25997	LOC11595	NM_138783.1	1002	cggctcacaggttgatcatattg	30714	-	see also 11296 line
25998	LOC11607	NM_138456.2	803	agcgcctgtgcccatggattgt	30720	-	-

図46 (続き)

761

25999	LOC11758	NM_057178.2	1067	cagtgtccgaagaagacaaaacg	30729	-	see also 9500 line	
26000	LOC11758	NM_057178.2	362	gacctcttggaactgtaagaaaa	30722	-	see also 9500 line	
26001	LOC12754						transcription_regulat	-
26001	0	NM_145205.2	150	gtctcttcttcaagttcaactttt	30731	-	or	-
26002	LOC15187	NM_138815.2	563	aaacaactcgtgttgagtaactat	30742	-	see also 11298 line	
26003	LOC15187	NM_138815.2	560	gtcaacaactcgtgttgagtaact	30741	-	see also 11298 line	
26004	LOC15322	NM_153607.1	412	ttcggatccagatttcagtgatg	30755	-	see also 9997 line	
26005	LOC15322	NM_153607.1	1906	ttccagagctgtcgtggttaagaa	30793	-	see also 9997 line	
26006	LOC22114	NM_174928.1	173	ttgagccaggagagagatataaa	30806	-	see also 11300 line	
26007	LOC22114	NM_174928.1	372	ttcgatatacatcttgaatatg	30815	-	see also 11300 line	
26008	LOC28324	NM_173587.2	521	atgatcccggttggaaccaatga	30826	-	see also 11301 line	
26009	LOC28324	NM_173587.2	1419	tcctgtagtatggcaagacttt	30837	-	see also 11301 line	
26010	LOC58959	NM_020207.1	270	ggcagcacatgacgtattttagt	30846	-	see also 11302 line	
26011	LOC58959	NM_020207.1	272	cagcaaatgacgtattttagtgg	30847	-	see also 11302 line	
26012	LOC57117	NM_020395.2	1320	ggccttagtgcctgaagttagtg	30919	-	see also 11303 line	
26013	LOC57117	NM_020395.2	1047	agcgtttcctcgtcagtaactag	30913	-	see also 11303 line	
26014	LOC57117	NM_020395.2	1321	gccttagtgcctcagtagttagt	30920	-	see also 11303 line	
26015	LOC58486	NM_021211.1	1206	tactgttcacgtcgaattaagg	30952	-	see also 11304 line	
26016	LOC58486	NM_021211.1	1808	ttcgtcgtgaactttgtgttttc	30981	-	see also 11304 line	
26017	LOC58486	NM_021211.1	2471	tgcgaatccgactgaactaatat	31005	-	see also 11304 line	
26018	LOC64744	NM_022733.1	1064	ggccatgcctcgcaggtcatttg	31031	-	see also 8436 line	
26019	LOC90668	NM_138360.1	2276	gacaagctggaacctgtagaag	31039	-	see also 11306 line	
26020	LOC90668	NM_138360.1	1642	cccccaagcctcggcgaataact	31038	-	see also 11306 line	
26021	LOC93349	NM_138402.2	156	cgggaacggagaaacgcagaaaaac	31040	-	see also 11307 line	
26022	LOC93349	NM_138402.2	454	aaccttgcaaaagtgtatcacaga	31042	-	see also 11307 line	
26023	LRP1B	NM_018557.1	6172	gagccagttggtctatcgtataga	31222	-	see also 7512 line	
26024	LRP1B	NM_018557.1	7679	aaggtaccaaacggaatcttttac	31274	-	see also 7512 line	
26025	LYL1	NM_005583.3	708	ggccagcaggacaccttttagcatc	31492	-	transcription_regulat	leukemia(白血病)
26026	M96	NM_007358.1	280	cacaagcgggtctccttttagctcg	31495	-	or	
26027	M96	NM_007358.1	277	gtccacaagcggctcctttagc	31494	-	see also 5083 line	
26028	MAF	NM_005360.2	1994	tacttaacagtggtttcacaaaa	31548	-	transcription_regulat	RNA polymerase II
26029	MAFB	NM_005461.3	623	gacacacctcggaggatctgtact	31549	-	or	transcription factor
26030	MAZ	NM_002383.1	828	tccttcctgggtgctatgaagatg	31551	-	-	-
26031	MAZ	NM_002383.1	829	cccctcgggtgctatgaagatgc	31552	-	see also 11309 line	
26032	MBD3	NM_003926.5	348	agcagccgggtgaaccgaattacc	31559	-	see also 11309 line	
26033	MBD3	NM_003926.5	352	ggcgggaccagattaccacacc	31560	-	see also 2687 line	
26034	MBD5	NM_018328.3	3189	cagtcgctgttaaacacaacatca	31645	-	see also 11311 line	
26035	MBD5	NM_018328.3	2397	cagttactacagtcctatgagtg	31620	-	see also 11311 line	
26036	MCM2	NM_004526.2	60	ggcggaatcatcgggaactctca	31690	-	see also 11312 line	
26037	MCM2	NM_004526.2	1638	agcgaagtcgcagcttctcaagt	31702	-	see also 11312 line	
26038	MCM3	NM_002388.3	570	accatagagcagcgttatctga	31724	-	see also 11313 line	
26039	MCM3	NM_002388.3	2219	ttcatacagcccttatgacttca	31758	-	see also 11313 line	

762

図46 (続き)

26040	MCM3AP	NM_003906.3	5261	atgatottatgocctgtgtatc	31841	-	see also 11314 line
26041	MCM3AP	NM_003906.3	5868	gtctcagcgaacgaactaaagc	31850	-	see also 11314 line
26042	MCM4	NM_005914.2	1838	ctcactgcgtacgtatgaaga	31875	-	see also 11315 line
26043	MCM4	NM_005914.2	2579	atgagtgccacccctctgtaacg	31896	-	see also 11315 line
26044	MCM5	NM_006739.2	1615	gtcgccttcgacatgacttca	31920	-	see also 4762 line
26045	MCM5	NM_006739.2	1396	tgtgtgggtcgtctgtattgacg	31917	-	see also 4762 line
26046	MCM6	NM_005915.4	1469	atggaagtcggagatcaagtgc	31952	-	see also 4136 line
26047	MCM6	NM_005915.4	524	gagcttggagcgaactttct	31931	-	see also 4136 line
26048	MCM7	NM_005916.3	1318	cacgtcagtcactggtatttt	32004	-	see also 11317 line
26049	MCM7	NM_005916.3	687	cccgagcttggtgactoaattt	31991	-	see also 11317 line
26050	MCM8	NM_032485.4	635	cagcgatagctctctttgattg	32031	-	see also 11318 line
26051	MCM8	NM_032485.4	582	ttggatcattatcaccatataa	32028	-	see also 11318 line
26052	MCMDC1	NM_153255.2	621	ggcacagtattcgaacaaagtct	32114	-	see also 11319 line
26053	MCMDC1	NM_153255.2	951	ctcattattacggattgtaatt	32131	-	see also 11319 line
26054	MECP2	NM_004992.2	608	cacatccctggacccttaattg	32152	-	see also 3482 line
26055	MGC23143	NM_153219.1	654	atctccggctgcggtttacaga	32162	-	see also 11321 line
26056	MGC23143	NM_153219.1	102	ggaaacacctctggccttatctcc	32161	-	see also 11321 line
26057	MGC23920	NM_173825.1	286	ttcgtacacgacttaacaaataa	32168	-	see also 11322 line
26058	MGC23920	NM_173825.1	475	aagcgcatggaagttttaactac	32176	-	see also 11322 line
26059	MGC2941	NM_024297.1	822	ggcgaagaagcggaggttaaaaa	32185	-	see also 11323 line
26060	MGC2941	NM_024297.1	823	agcaagaacgggaagttaaaaa	32186	-	see also 11323 line
26061	MGC29463	NM_152686.1	41	ggcgtggacggaggtttacattg	32187	-	see also 9917 line
26062	MGC33407	NM_178525.2	1114	cggcgacttggcccaaacgtgc	32212	-	see also 11325 line
26063	MGC33407	NM_178525.2	864	tggactcttgaggagacattaaag	32210	-	see also 11325 line
26064	MGMT	NM_002412.1	118	ggagtgcacgaataaataagctcc	32213	-	see also 11326 line
26065	MHC2TA	NM_000246.1	1810	agcaaggccgagccctatttga	32226	-	see also 11327 line
26066	MHC2TA	NM_000246.1	3279	caggctaagcttggataataact	32235	-	see also 11327 line
26067	MI-ER1	NM_020948.1	748	tcgcccacgtgtgattaaatat	32245	-	see also 11328 line
26068	MITF	NM_000248.2	474	atgtaatcgaigacacattatgc	32261	-	see also 11328 line
26069	MITF	NM_000248.2	1198	ggcccaaccagcctatgtctcc	32283	-	see also 180 line
26070	MIZ1	NM_004671.1	881	atcttggagcagcttaccatca	32296	-	see also 180 line
26071	MIZ1	NM_004671.1	178	ttgtatagacgcgatattccacg	32352	-	see also 3193 line
26072	MKL1	NM_020831.2	624	atctaaacggagattcgttcc	32323	-	see also 3193 line
26073	MKL1	NM_020831.2	1935	tgtctcagcacggcgatgaaaac	32375	-	see also 11330 line
26074	MKL1	NM_020831.2	1935	tgtctcagcacggcgatgaaaac	32383	-	see also 11330 line
26075	MLL3	NM_021230.1	11941	ctgaacgacaccttatagtaaca	32659	-	see also 11331 line
26076	MLL3	NM_021230.1	11782	ttcagatacggccgaatccctct	32659	-	see also 11331 line
26077	MLL5	NM_018682.2	4451	ctcagacacacgttcgtaattca	32653	-	see also 11331 line
26078	MLL5	NM_018682.2	3599	tcggagcagctgttaatacaat	32821	-	see also 11332 line
26079	MLL1	NM_005934.2	392	gggtacgtctggtcttaataatgc	32805	-	see also 11332 line
26080	MLL1	NM_005934.2	414	cccatcgggtgacacttcaaaaa	32664	-	see also 11333 line
26081	MLL1	NM_005937.1	1888	accccatgggtgcccgttaatcc	32865	-	see also 11333 line
26082	MLL1	NM_005937.1	1640	tactagggagcaggaatatacacc	32880	-	see also 4144 line
26083	MNDA	NM_002432.1	857	aacagcgccatttaataacaggt	32877	-	see also 4144 line
					32897	-	see also 11335 line

図46 (続き)

763

26084	MNDA	NM_002432.1	377	tgctgtctagacaactaatag	32891	-	see also 11335 line
26085	MRTF-B	NM_014048.3	2235	gtgtgtctcagttttatactc	32956	-	see also 11336 line
26086	MRTF-B	NM_014048.3	2233	gtgtgtctcagttttatactc	32955	-	see also 11336 line
26087	MUS81	NM_025128.3	385	cacgcgacgccttctgtattca	32973	-	see also 11337 line
26088	MUS81	NM_025128.3	390	cacgcgcttctgtattcagaagg	32975	-	see also 11337 line
26089	MUTYH	NM_012222.1	1463	ctctccacatcaagctgacataac	32995	-	see also 11338 line
26090	MUTYH	NM_012222.1	160	gtgtgtgtggcccatatgagg	32988	-	see also 11338 line
26091	MUTYH	NM_012222.1	1584	tccaccgcatgaaaaaggtttt	33000	-	see also 11338 line
26092	MXD4	NM_006454.2	136	gcgacttcgccaggaggaacaa	33003	-	transcription_regulat or repressor
26093	MXD4	NM_006454.2	138	gacttcgccaggaggaacaa	33004	-	see also 26092 line
26094	MXI1	NM_005962.2	920	cacagcagctgcgcgagtattgg	33013	-	see also 11339 line
26095	MXI1	NM_005962.2	605	tgccaccgggcacacacacacttg	33008	-	see also 11339 line
26096	MXI1	NM_005962.2	387	aacatgctacgcctcttcattc	33005	-	see also 11339 line
26097	MYB	NM_005375.1	1990	ctcgttaatacgtgaatgcattc	33063	-	see also 11340 line
26098	MYB	NM_005375.1	446	tcgaaacgttggtgtgtatttg	33019	-	see also 11340 line
26099	MYB	NM_005375.1	1979	ttccagtcgaagctcgttaataacg	33062	-	see also 11340 line
26100	MYCD	NM_153604.1	222	tgccgacttggttaataatgcaca	33074	-	see also 9996 line
26101	MYCD	NM_153604.1	217	aacagtcgcactgtgtaataat	33072	-	see also 9996 line
26102	MYST3	NM_006766.1	1376	aacggcgctactactaatccaata	33138	-	see also 11342 line
26103	MYST3	NM_006766.1	1369	cagataaacggcgctactactaa	33137	-	see also 11342 line
26104	MYST4	NM_012330.1	2026	atcgctgttaaacactgaattatc	33287	-	see also 5283 line
26105	MYST4	NM_012330.1	6177	tcctgcacgacttaacgactgc	33361	-	see also 5283 line
26106	MYST4	NM_012330.1	822	accgcagtcacaggttcaattatg	33248	-	see also 5283 line
26107	N-PAC	NM_032569.2	122	aacctcggaagaaagaaatgcttc	33381	-	see also 9250 line
26108	NAP1L1	NM_004537.3	975	caagtgtgactgtgactaaacaa	33417	-	see also 3090 line
26109	NAP1L2	NM_021963.2	1543	taagtactacataattccaaga	33452	-	see also 11346 line
26110	NAP1L2	NM_021963.2	713	aactagagcggccaaattagaat	33424	-	see also 11346 line
26111	NAP1L2	NM_021963.2	719	agcggccaattagaattccaat	33425	-	see also 11346 line
26112	NAP1L3	NM_004538.2	473	gccgcagccgctgttagaagaag	33456	-	see also 3094 line
26113	NAP1L3	NM_004538.2	581	atcgtgtgcaagcgccttagaac	33461	-	see also 3094 line
26114	NAP1L4	NM_005969.2	735	tggaacgctctgtcttttgtt	33511	-	see also 11348 line
26115	NAP1L4	NM_005969.2	737	gacagcctatgtcttttgtta	33512	-	see also 11348 line
26116	NCL	NM_005381.1	1276	gacgagatgcgagaaacatttt	33529	-	see also 11349 line
26117	NCL	NM_005381.1	1017	acagactacagcttcaattctct	33521	-	see also 11349 line
26118	NCL	NM_005381.1	1894	tcogtccgggcaaggatagttac	33546	-	see also 11349 line
26119	NCOR1	NM_006311.2	6785	cccgctccacagggagtagaac	33678	-	see also 4410 line
26120	NCOR1	NM_006311.2	4040	cacggttagagagctgtatgc	33624	-	see also 4410 line
26121	NCOR2	NM_006312.1	2122	gtcggcgctgagcgaagaatagg	33709	-	see also 11351 line
26122	NCOR2	NM_006312.1	3655	ctcggcagcgcgcacacataacc	33713	-	see also 11351 line
26123	NCOR2	NM_006312.1	3347	agcgctcgcgagagcaaatagg	33711	-	see also 11351 line
26124	NDN	NM_002487.2	850	cgccgaatacaggttcttttgg	33735	-	see also 11352 line
26125	NDN	NM_002487.2	796	aggagttcgtccaatgaattac	33734	-	see also 11352 line
26126	NEUROD1	NM_002500.1	1112	tccttcgatagccattcacatca	33746	-	see also 1606 line

764

図46 (続き)

26127	NEUROD1	NM_002500.1	1111	gtccttcgataggcattacacatc	33745	-	see also 1606 line
26128	NEUROD1	NM_002500.1	1041	cccaaaagccacggatcaatcttc	33742	-	see also 1606 line
26129	NEUROD4	NM_021191.1	1041	cacagagataaatctctctatttg	33759	-	see also 11354 line
26130	NEUROD4	NM_021191.1	1391	cccccgttatgtctcctatag	33765	-	see also 11354 line
26131	NEUROD4	NM_021191.1	588	gagagcagaccaggtactctatgg	33747	-	see also 11354 line
26132	NEUROD6	NM_022728.2	684	aacagacgtctggacaacttaag	33771	-	see also 8429 line
26133	NEUROD6	NM_022728.2	685	acgacgtctggacaacttaaga	33772	-	see also 8429 line
26134	NEUROG3	NM_020999.1	398	gcgacggagctcggcgaagaagg	33798	-	see also 9835 line
26135	NIRF	NM_152306.2	1641	gtcgtacagagaatgtactatt	33848	-	see also 9835 line
26136	NIRF	NM_152306.2	1032	cacgagctagaaccatttgaaa	33826	-	see also 9835 line
26137	NONO	NM_007363.3	1019	accaagtgcacgcgaacatcaag	33887	-	see also 11357 line
26138	NONO	NM_007363.3	1260	gcggcgacacagcaggaaggattca	33888	-	see also 11357 line
26139	NRBF-2	NM_030759.1	258	tacgaaaggctattctgtgca	33891	-	see also 11358 line
26140	NRBF-2	NM_030759.1	264	gaggctattctgtgcacaaaaa	33892	-	see also 11358 line
26141	NRF	NM_017544.1	1275	caggcgtgtaagacaanaatctga	33919	-	see also 11359 line
26142	NRF	NM_017544.1	1030	agcctgtaacagccaacatgtat	33910	-	see also 11359 line
26143	NRF1	NM_005011.2	857	aggcactacaggaccatagttaa	33980	-	see also 11360 line
26144	NRF1	NM_005011.2	422	ttcgagccacgttagatgaatat	33950	-	see also 11360 line
26145	NSD1	NM_022455.3	3551	aacctgtgaagcgcataaacaga	34083	-	see also 8362 line
26146	NSD1	NM_022455.3	3535	aaccaaaggcgcactaaacctg	34082	-	see also 8362 line
26147	NSD1	NM_022455.3	3554	ctcgtgaagcgcataaacagattt	34084	-	see also 8362 line
26148	NTLH1	NM_002528.4	529	cacgctggcgaagctctctacc	34175	-	see also 11362 line
26149	NTLH1	NM_002528.4	565	gaggagcagagtgaaatacatca	34176	-	see also 11362 line
26150	NUCB1	NM_006184.3	655	acgcgagcagccctaaagtcaac	34184	-	see also 11363 line
26151	NUCB1	NM_006184.3	378	gcgcagcagatcccaatgtaca	34179	-	see also 11363 line
26152	NUCB1	NM_006184.3	519	tacgaagcagcccatcatgaaga	34182	-	see also 11363 line
26153	NUCB2	NM_005013.1	694	atcaaaagcggcacaagtgatct	34201	-	see also 3509 line
26154	NUCB2	NM_005013.1	705	aacaaagtgtctggaacactatg	34202	-	see also 3509 line
26155	NUP153	NM_005124.2	2049	ttcgcatgcgcgaagatagattc	34281	-	see also 3601 line
26156	NUP153	NM_005124.2	1118	aacagctcggcgaatattgcagt	34243	-	see also 3601 line
26157	OASL	NM_003733.2	1126	gagccataaggaaggtaaaga	34347	-	see also 11366 line
26158	OASL	NM_003733.2	1462	tgtttgggtctgggactctatgg	34350	-	see also 11366 line
26159	OLIG2	NM_005806.1	869	tccacgcagcggcctactctaagt	34353	-	see also 4054 line
26160	OLIG2	NM_005806.1	146	gcccagagcccgatgaccttttc	34351	-	see also 4054 line
26161	ORC1L	NM_004153.2	1152	acctgaacatgcataatcctga	34379	-	see also 11367 line
26162	ORC1L	NM_004153.2	1400	agcttcggtttctagtaataagt	34389	-	see also 11367 line
26163	ORC6L	NM_014321.2	552	atccggttataaaaaagcttat	34420	-	see also 5619 line
26164	ORC6L	NM_014321.2	242	gccccttgacagaggcttattta	34413	-	see also 5619 line
26165	OSMR	NM_003999.1	3240	ctccccgcgcgagaatagcagc	34501	-	see also 11368 line
26166	OSMR	NM_003999.1	2863	gactaagcctaacctactcttctc	34497	-	see also 11368 line
26167	OSMR	NM_003999.1	3237	tgcctcccccgcgcgagaatagc	34500	-	see also 11368 line
26168	PAX1	NM_006192.1	606	gggcatccggagctttatgagc	34506	-	see also 4280 line
26169	PAX1	NM_006192.1	1029	cggagcgcctcagtagctaca	34510	-	see also 4280 line
26170	PAX5	NM_016734.1	680	atcaagcctggggtaattggagg	34513	-	see also 11370 line

765

図46 (続き)

26171	PAX5	NM_016734.1	857	aggataatccggacaaaagtaca	34516	-	see also 11370 line
26172	PAX9	NM_006194.1	802	gggtattacgaactacataaagc	34524	-	see also 11371 line
26173	PAX9	NM_006194.1	1231	agcccaagtgcctctacatga	34529	-	see also 11371 line
26174	PC326	NM_018442.1	1828	aagccgctagtaaaaatggttt	34561	-	see also 11372 line
26175	PC326	NM_018442.1	1829	agccgctagtaaaaatggttta	34562	-	see also 11372 line
26176	PC326	NM_018442.1	1825	tagaaggccgctagtaaaaatgg	34560	-	see also 11372 line
26177	PCBP3	NM_020528.1	1020	accattccaatgcatcaatagg	34584	-	see also 7889 line
26178	PCDH1	NM_002587.3	967	tcctatgaggccgaactatcga	34594	-	see also 11374 line
26179	PCDH1	NM_002587.3	344	gcctcgaagccgactatggtttt	34589	-	see also 11374 line
26180	PCDH1	NM_002587.3	346	ctcgacgcgactatggttttcc	34590	-	see also 11374 line
26181	PCNA	NM_002592.2	530	tacctggcgctagtattgaag	34626	-	see also 11375 line
26182	PCNA	NM_002592.2	503	tacactaaggccggaagataacg	34624	-	see also 11375 line
26183	PCD2	NM_002598.2	601	accagatcatctggaccatataa	34642	-	see also 11376 line
26184	PHF10	NM_018288.2	1074	aaggtcattccaatgcctatg	34669	-	see also 7369 line
26185	PHF10	NM_018288.2	1088	aegccaaagtcaattccaatgc	34688	-	see also 7369 line
26186	PHF11	NM_016119.1	362	agccacogtggatggtattaa	34688	-	see also 11377 line
26187	PHF11	NM_016119.1	495	ttccgctatcgcctcaaatg	34693	-	see also 11377 line
26188	PHF12	NM_020889.1	2481	taggaactccgtgacacattca	34732	-	see also 8012 line
26189	PHF13	NM_153812.1	1161	gtcgaaatccggaaatccaat	34744	-	see also 11379 line
26190	PHF13	NM_153812.1	1114	cccatgatcggagtgtaagt	34743	-	see also 11379 line
26191	PHF13	NM_153812.1	1162	tgcgaataatccggaataccaatg	34745	-	see also 11379 line
26192	PHF14	NM_014660.1	1743	gaacctcgcttgtagaactgg	34776	-	see also 5831 line
26193	PHF14	NM_014660.1	1568	gtgtctaatcaaggatgggaattt	34766	-	see also 5831 line
26194	PHF15	NM_015288.4	232	ctgacagtcacgacatctaca	34814	-	see also 6314 line
26195	PHF16	NM_014735.2	617	atccgaccccggaagtattatca	34833	-	see also 5924 line
26196	PHF16	NM_014735.2	619	ccgaccccggaagtattatcaact	34834	-	see also 5924 line
26197	PHF3	NM_015153.1	4944	agcgaggtctcacagtttatca	35003	-	see also 11383 line
26198	PHF3	NM_015153.1	3164	aacgacggccaatcaccacaata	34960	-	see also 11383 line
26199	PHF6	NM_032335.1	598	agccctcaccactaaaagttaa	35046	-	see also 9165 line
26200	PHF6	NM_032335.1	813	agcacaggaaaactgcacatat	35049	-	see also 9165 line
26201	PIAS1	NM_016166.1	1704	gccttactactacaaggattag	35123	-	see also 6696 line
26202	PIAS1	NM_016166.1	862	gtccgactgtccacaacagtacc	35096	-	see also 6696 line
26203	PIAS3	NM_006099.2	836	atctgagttcggacggaattact	35133	-	see also 11385 line
26204	PIAS3	NM_006099.2	1617	ggcgacatccaagggttttagattt	35151	-	see also 11385 line
26205	PIAS3	NM_006099.2	1616	agccgacatccaagggttttagatt	35150	-	see also 11385 line
26206	PIAS3	NM_015897.2	681	cgggctactaccctcccaataag	35166	-	see also 11386 line
26207	PIAS3	NM_015897.2	334	ccccgtctctacggaagtact	35158	-	see also 11386 line
26208	PIK4CA	NM_002650.1	1275	ggcgagtagtcggggtagaagtc	35177	-	see also 11387 line
26209	PIK4CA	NM_002650.1	1370	tgggctatgtcgggagattatt	35179	-	see also 11387 line
26210	PJA2	NM_014819.1	1247	atccacatactcaaggattatt	35289	-	see also 6012 line
26211	PJA2	NM_014819.1	493	gaggaagcagagatcactagg	35264	-	see also 6012 line
26212	PJA2	NM_014819.1	1994	ctgctattggtcagggaacaatgc	35303	-	see also 6012 line
26213	PLAC3	NM_020318.1	1597	gaagcttatctcggcaatcaaaag	35316	-	see also 11389 line
26214	PLAC3	NM_020318.1	1934	aagtaggactgcccatcttatac	35323	-	see also 11389 line

図46 (続き)

766

26215	PLAGL1	NM_002656.2	2951	ctctgctaccacaaatactctt	35406	-	see also 11390 line
26216	PLAGL1	NM_002656.2	2220	cctagcggagaaacaggaaga	35398	-	see also 11390 line
26217	PMS1	NM_000534.2	2512	ctgctctaacggaatgttc	35493	-	see also 404 line
26218	PMS1	NM_000534.2	1959	gaatgggaacatacaatagta	35477	-	see also 404 line
26219	PMS2	NM_000535.2	944	atgagctaccacatgtataat	35513	-	see also 11392 line
26220	PMS2	NM_000535.2	1008	ttcagaatgcttgatcaatg	35514	-	see also 11392 line
26221	POGK	NM_017542.3	1722	cccaacgggaatgctaagaagc	35545	-	see also 7022 line
26222	POGK	NM_017542.3	911	agcgttgagcaatagtcaaga	35533	-	see also 7022 line
26223	POGZ	NM_015100.1	386	aacgggtgacaaattacacag	35560	-	see also 6238 line
26224	POGZ	NM_015100.1	1420	agtagatggtaacactatctgc	35580	-	see also 6238 line
26225	POLA	NM_016937.1	3676	ggctggatctgtgaacacatg	35707	-	see also 6972 line
26226	POLA	NM_016937.1	4065	agcaaacctgtcgcaatgaact	35721	-	see also 6972 line
26227	POLA	NM_016937.1	3939	atcgttcagtaacatcgatgt	35714	-	see also 6972 line
26228	POLB	NM_002690.1	563	tctctgaaagagatgtacaaa	35743	-	see also 1752 line
26229	POLB	NM_002690.1	519	cagcgaattggcgtgaataatt	35740	-	see also 1752 line
26230	POLD1	NM_002691.1	630	tgtctccgagagagcatgttgg	35758	-	see also 11397 line
26231	POLD1	NM_002691.1	1225	acgtgataccgggttaacacatc	35761	-	see also 11397 line
26232	POLD3	NM_006591.1	127	aacaagatcgtgacatacaaatg	35769	-	see also 4617 line
26233	POLD3	NM_006591.1	1226	aacgctactaaaatctaaact	35790	-	see also 4617 line
26234	POLE	NM_006231.1	4177	gtcttgatcgacaggttaaat	35850	-	see also 4320 line
26235	POLE2	NM_002692.2	546	atcggagatcggtgttcttgg	35898	-	see also 11399 line
26236	POLE2	NM_002692.2	261	gagcaagtttcaatacataggg	35888	-	see also 11399 line
26237	POLE3	NM_017443.3	239	tccggagcgggttaacatccc	35929	-	see also 11400 line
26238	POLE3	NM_017443.3	324	tgtaacaactttgcaatgaag	35931	-	see also 11400 line
26239	POLE4	NM_019896.2	265	ttgcaaaagatgctactgtgc	35933	-	see also 11401 line
26240	POLE4	NM_019896.2	318	aggagagacttggataatgaat	35934	-	see also 11401 line
26241	POLG	NM_002693.1	2065	cagatcgagggtcacacctaact	35951	-	see also 1754 line
26242	POLG	NM_002693.1	2683	tggaggaacgccataaacgtat	35959	-	see also 1754 line
26243	POLL	NM_013274.2	1497	ggccatcgccctgaagcattaca	35978	-	see also 11403 line
26244	POLL	NM_013274.2	1501	atcgccctgaagcattacagtga	35979	-	see also 11403 line
26245	POLM	NM_013284.1	913	gtcctgcggctcgatgtatgc	35990	-	see also 11404 line
26246	POLM	NM_013284.1	234	ctccgaagcgacacatgttga	35986	-	see also 11404 line
26247	POLR1A	NM_015425.1	473	gtctacgagcttgagagaattot	36008	-	see also 6408 line
26248	POLR1A	NM_015425.1	1173	ttgctattgacagatccttttg	36024	-	see also 6408 line
26249	POLR1B	NM_019014.2	2160	atcaagacccgatcgagatacaaa	36132	-	see also 11406 line
26250	POLR1B	NM_019014.2	2166	accgatcgagatacaaacgtat	36133	-	see also 11406 line
26251	POLR1B	NM_019014.2	218	ctcggcggtagcagctatactcc	36083	-	see also 11406 line
26252	POLR1C	NM_004875.1	921	ccgggttcgagatcattatc	36193	-	see also 11407 line
26253	POLR1C	NM_004875.1	372	ctgatcccgctcttttgatgat	36186	-	see also 11407 line
26254	POLR1C	NM_004875.1	239	ggcaatgcttttcgacgaattct	36182	-	see also 11407 line
26255	POLR2A	NM_000937.2	2425	tctcatcgaggggtcactatt	36223	-	see also 11408 line
26256	POLR2A	NM_000937.2	2602	atcaggtgaacccgattcttaac	36229	-	see also 11408 line
26257	POLR2A	NM_000937.2	4156	tccgtattcgcatcatgaacagc	36255	-	see also 11408 line
26258	POLR2B	NM_000938.1	2960	ccctctctgatactattgtgca	36387	-	see also 616 line

767

図46 (続き)

26259	POLR2C	NM_002694.2	153	ttcgattcggagggtcttcacg	36408	-	see also 11410 line	
26260	POLR2C	NM_002694.2	447	gacatccggagaccagataatg	36414	-	see also 11410 line	
26261	POLR2E	NM_002695.2	40	gagctacggctctggaaaatcc	36425	-	transcription_regulat	protein binding
26262	POLR2F	NM_021974.2	374	ccgaaagatcccatcatcatt	36429	-	or	-
26263	POLR2F	NM_021974.2	228	gcgaatccacacaccatcatga	36428	-	see also 11411 line	
26264	POLR2J	NM_006234.3	359	gccttctgggtggccataaaag	36430	-	see also 11411 line	
26265	POLR2J	NM_006234.3	360	cgcttctgggtggccataaaag	36431	-	transcription_regulat	-
26266	POLR2J	NM_006234.3	364	ttcgggtggccataaaagacaag	36432	-	or	-
26267	POLR2K	NM_005034.2	210	gactaaaagattgctgtttttg	36436	-	see also 26264 line	
26268	POLR2K	NM_005034.2	90	acctcaaaagcagcaaccaatga	36434	-	see also 11412 line	
26269	POLRMT	NM_005035.2	1846	tgcttaccacgtgtatttccttc	36440	-	see also 11412 line	
26270	POLRMT	NM_005035.2	865	aggagctgtatgtgttttc	36438	-	see also 11413 line	
26271	POLS	NM_006999.2	284	gacaaggctacggtaccataat	36448	-	see also 4887 line	
26272	POLS	NM_006999.2	287	aaggctacgggtaccataataaa	36449	-	see also 4887 line	
26273	PPARBP	NM_004774.2	3171	gcgcagtcggacccttctaag	36562	-	see also 3284 line	
26274	PPARBP	NM_004774.2	1393	ggccgagttctcttattctctaaa	36519	-	see also 3284 line	
26275	PPARBP	NM_013261.2	1948	caccgacgcaccgaaaattctcc	36636	-	see also 5378 line	
26276	PPFIBP1	NM_003622.2	538	acctgctggattgttagagatg	36647	-	see also 11417 line	
26277	PPFIBP1	NM_003622.2	542	gcgtgagattgttagagatg	36648	-	see also 11417 line	
26278	PQBP1	NM_005710.1	497	cccaactcgtgggtaccataat	36724	-	see also 11418 line	
26279	PQBP1	NM_005710.1	498	cccaactcgtgggtaccataat	36725	-	see also 11418 line	
26280	PRDM10	NM_020228.1	3186	ggcgggtactcgggtcattatg	36772	-	see also 11419 line	
26281	PRDM10	NM_020228.1	2277	ttgtcagttatcgataaggttt	36780	-	see also 11419 line	
26282	PRDM12	NM_021619.2	655	ctgtgtgtgtacggaaactcaa	36784	-	see also 11420 line	
26283	PRDM12	NM_021619.2	488	atggcacggtcggtacttacttc	36780	-	see also 11420 line	
26284	PRDM13	NM_021620.1	1158	cggcgtgcgtcagcttcaagc	36790	-	see also 11421 line	
26285	PRDM13	NM_021620.1	1721	ccgcttattaccgctcctcaatg	36793	-	see also 11421 line	
26286	PRDM14	NM_024504.1	854	agcctgcacatgcgatttcagg	36801	-	see also 11422 line	
26287	PRDM14	NM_024504.1	1084	gacctacggagacaattctgta	36807	-	see also 11422 line	
26288	PRDM4	NM_012406.2	556	cagcactagatccctatcagtc	36834	-	see also 11423 line	
26289	PRDM4	NM_012406.2	718	gggttacagcccaatttggaca	36839	-	see also 11423 line	
26290	PRDM5	NM_018699.1	1094	atcagctaaaacgctcatgac	36885	-	see also 7569 line	
26291	PRDM5	NM_018699.1	1144	tgcgagattt-gtaataagcttt	36890	-	see also 7569 line	
26292	PRDM7	NM_052996.1	529	cacaggcagatctctatagaac	36911	-	transcription_regulat	DNA binding
26293	PRDM7	NM_052996.1	852	tccagctgtctgtatgacaaaa	36908	-	or	-
26294	PRDM7	NM_052996.1	854	cagcgtgtgtatgacaaaacc	36909	-	see also 26292 line	
26295	PRDM9	NM_020227.1	723	tccacacacgctgaatgacaaaa	36913	-	transcription_regulat	DNA binding
26296	PRDM9	NM_020227.1	722	atccacacacgctgaatgacaaa	36912	-	or	-
26297	PRES	NM_013388.3	1375	gtgtgtcgggtcttatttggga	36928	-	see also 26295 line	
26298	PRES	NM_013388.3	1377	gtgtgggcttatttggga	36929	-	see also 11425 line	

768

図46 (続き)

26299	PRIM2A	NM 000947.1	460	atggatctccttcgatttagatt	36938	-	see also 629 line
26300	PRIM2A	NM 000947.1	1438	agccacgattttaaattggtgg	36902	-	see also 629 line
26301	PRKCBP1	NM 012408.3	3459	atcgacacgttcgcatcaaca	37030	-	see also 11427 line
26302	PRKCBP1	NM 012408.3	442	cgggtttatcacgtaagtgtct	36974	-	see also 11427 line
26303	PRKRIR	NM 004705.2	2099	gacgaagagctttaagcatat	37087	-	see also 3228 line
26304	PRKRIR	NM 004705.2	1399	agctggccgagcatttgaattct	37072	-	see also 3228 line
26305	PTPRF	NM 002840.2	1952	gagcgatcatcatgtatgaact	37146	-	see also 11429 line
26306	PTPRF	NM 002840.2	1673	cggggatacccgctctactatcc	37143	-	see also 11429 line
26307	PYGO1	NM 015617.1	589	aaccgatttggcatcattat	37200	-	see also 11430 line
26308	PYGO1	NM 015617.1	1210	atcgtactagagaaacttttgg	37218	-	see also 11430 line
26309	PYGO1	NM 015617.1	20	cagctccgcttacaagaatttcc	37180	-	see also 11430 line
26310	PYGO2	NM 138300.2	678	agcctctgggtcaaaactttagt	37220	-	see also 11431 line
26311	RAB10	NM 016131.2	996	tctcacgttagctgaagatctc	37242	-	see also 6684 line
26312	RAB25	NM 020387.1	302	ccgatttcacggcgaatggttc	37246	-	see also 11433 line
26313	RAB25	NM 020387.1	632	ccggaatgttcgtgaaacaat	37250	-	see also 11433 line
26314	RAB25	NM 020387.1	630	ggccgaatgttcgtgaaaca	37249	-	see also 11433 line
26315	RABGEF1	NM 014504.1	1180	agctagaoccccgacttttgaat	37269	-	see also 11434 line
26316	RABGEF1	NM 014504.1	459	aaccggcaaacacgcatgaaac	37253	-	see also 11434 line
26317	RAD17	NM 002873.1	984	acaaacacaggtggtatctttt	37291	-	see also 1910 line
26318	RAD17	NM 002873.1	941	aagaagtgcgaacacttggtaaa	37288	-	see also 1910 line
26319	RAD52	NM 002879.2	308	ttgagggtcatcgggttaattat	37340	-	see also 1919 line
26320	RAD54B	NM 012415.2	2061	cagcaacttcgacctactgaaaa	37413	-	see also 11437 line
26321	RAD54B	NM 012415.2	872	tacgcaaatccctcgttatgc	37370	-	see also 11437 line
26322	RAD54L	NM 003579.2	2263	tgcgcgaaggtacttatacttc	37476	-	see also 2374 line
26323	RAD54L	NM 003579.2	2259	ggcgtgcgcgaaggtacttatac	37474	-	see also 2374 line
26324	RAG1	NM 000448.1	221	tccgggtgagatcctttgaaaa	37487	-	see also 11439 line
26325	RAG1	NM 000448.1	218	ctgttcgggtgagatcctttga	37486	-	see also 11439 line
26326	RAG2	NM 000536.1	729	tgggtgtgtacatacatattc	37566	-	see also 11440 line
26327	RAG2	NM 000536.1	1444	aacacttgggtaccattctattc	37588	-	see also 11440 line
26328	RAI1	NM 030665.3	5864	ggcgaacaagggtcgcaaacatga	37626	-	see also 11441 line
26329	RAI1	NM 030665.3	6021	tggccgtggaatgatgttcc	37628	-	see also 11441 line
26330	RBL2	NM 005611.2	2054	ctccaccacattatacgtatagg	37699	-	see also 3898 line
26331	RBL2	NM 005611.2	2052	atctccaaacacattatacga	37698	-	see also 3898 line
26332	RBM5	NM 005778.1	908	tacgcttcttagcttcaataa	37755	-	see also 4039 line
26333	RBM5	NM 005778.1	1592	cccaactcgaatactactataa	37772	-	see also 4039 line
26334	RBM5	NM 005778.1	1566	atccgacaacagggctctattat	37767	-	see also 4039 line
26335	RBM6	NM 005777.1	2109	tgtctaaagcgtatctatcttcc	37846	-	see also 4031 line
26336	RBM6	NM 005777.1	1967	gagtcacgcttaggacatcaaaa	37840	-	see also 4031 line
26337	RBM6	NM 005777.1	1317	ggcggaagacaacccattacaga	37822	-	see also 4031 line
26338	RBPSUH	NM 005349.1	1407	ggcaggtgccccctaacgaatca	37889	-	see also 3734 line
26339	RBPSUH	NM 005349.1	1406	agccaggtgccccctaacgaatc	37888	-	see also 3734 line
26340	RBPSUHL	NM 014276.2	1158	cggcacgcagctgggtggatttt	37909	-	see also 11446 line
26341	RBPSUHL	NM 014276.2	934	cccatgatcatccgtaaatagtc	37907	-	see also 11446 line
26342	RBPSUHL	NM 014276.2	423	ggccacaggtctcgggtacatgg	37904	-	see also 11446 line

図46 (続き)

769

26343	RCOR	NM_015156.1	703	aagacgaggactaaaactagtgt	37919	-	see also 6259 line
26344	RCOR	NM_015156.1	402	ctggtcaccaccaatcaaatctgt	37914	-	see also 6259 line
26345	RECQL	NM_002907.2	1410	agggaatcagggaatcatatatt	37966	-	see also 11447 line
26346	RECQL	NM_002907.2	1720	tactacgggtttgagatatatt	37978	-	see also 11447 line
26347	REPIN1	NM_013400.1	864	ccggcaaaagcccaacttgatg	37997	-	see also 11448 line
26348	REPIN1	NM_013400.1	863	tcggcacaaagcccaacttgatc	37996	-	see also 11448 line
26349	REV3L	NM_002912.1	8742	tggcgctcagttggagctaagc	38245	-	see also 1946 line
26350	REV3L	NM_002912.1	2669	accgtacccaacagagaataca	38037	-	see also 1946 line
26351	RF1	NM_002913.3	2267	cacgaacatctctcatcatcgg	38358	-	see also 1958 line
26352	RF1	NM_002913.3	3029	ctgctacagggcaaacatgatc	38380	-	see also 1958 line
26353	RF2	NM_002914.3	418	tcgcttcgcccttctgttaatg	38402	-	see also 11451 line
26354	RF2	NM_002914.3	523	cagcctgagaaatggtatcgaga	38406	-	see also 11451 line
26355	RF3	NM_002915.2	241	gtgtattctacgtgaactttatg	38423	-	see also 11452 line
26356	RF3	NM_002915.2	239	atggtattctacgtgaacttta	38422	-	see also 11452 line
26357	RF4	NM_002916.3	957	ttaaaagcgtactcgtgattaaca	38466	-	see also 1963 line
26358	RF4	NM_002916.3	640	ggcgtgcgccttttaagatg	38451	-	see also 1963 line
26359	RF4	NM_002916.3	734	tcgaaaacaccccgattctgtct	38456	-	see also 1963 line
26360	RF5	NM_007370.3	844	caccgcctcaagtcagacattgc	38485	-	see also 11454 line
26361	RF5	NM_007370.3	431	ggcagatcctgagcttctgtagc	38478	-	see also 11454 line
26362	RFP	NM_006510.3	441	tgctgacttgagcccataacatc	38492	-	see also 11455 line
26363	RFP	NM_006510.3	1826	tgcacctagtgaggatagatgg	38503	-	see also 11455 line
26364	RF2	NM_000635.2	887	aactgatccgtctctgtgttatg	38507	-	see also 11456 line
26365	RF2	NM_000635.2	2199	gacgtctctcgacaagaatgaca	38513	-	see also 11456 line
26366	RF4	NM_002920.3	1046	tgggaacatcaagttcgaattg	38533	-	see also 11457 line
26367	RF4	NM_002920.3	1482	cggtgtttttacctaattcaat	38544	-	see also 11457 line
26368	RFXDC1	NM_173560.1	162	gggcaagggtgtgctgtctatc	38562	-	see also 10083 line
26369	RFXDC1	NM_173560.1	163	ggcaagggtgtgctgtctatcc	38563	-	see also 10083 line
26370	RNF11	NM_014372.3	476	atccccacactcggatgacatct	38635	-	see also 5636 line
26371	RPC155	NM_007055.2	2767	aagctctactggcgatattatcc	38711	-	see also 4940 line
26372	RPC155	NM_007055.2	334	aggccaactatgggtatctgacc	38643	-	see also 4940 line
26373	RREB1	NM_002955.3	1429	cagcaggaacacacogttttgtct	38755	-	see also 11460 line
26374	RREB1	NM_002955.3	1259	aacgcgtgtgtccacaacaact	38750	-	see also 11460 line
26375	RUNX3	NM_004350.1	378	tgcctcggccgtctatgaagaacc	38776	-	see also 11461 line
26376	SAFB2	NM_014649.1	1742	agcggagaggtcgtggtgataaa	38797	-	see also 11462 line
26377	SAFB2	NM_014649.1	1287	aacacggcgtctacggatctcaaga	38787	-	see also 11462 line
26378	SAFB2	NM_014649.1	1775	agcccgcttcactcgtgaaacc	38801	-	see also 11462 line
26379	SALL1	NM_002968.1	95	aaccgagtcgccctactaagagc	38809	-	see also 1999 line
26380	SALL1	NM_002968.1	3513	cacgactaaaggcaatcttaagg	38854	-	see also 1999 line
26381	SALL3	NM_171999.1	3863	cgcggtttatagagataacaag	38875	-	see also 11464 line
26382	SALL3	NM_171999.1	3855	ccattcacgcgtttatcgagg	38873	-	see also 11464 line
26383	SALL3	NM_171999.1	3861	cacgcggtttatcgagataaca	38874	-	see also 11464 line
26384	SALL4	NM_020436.2	2893	aggtacagcaggaagagagctct	38911	-	see also 7875 line
26385	SALL4	NM_020436.2	3119	ggctccagtcgggtatcagtcg	38913	-	see also 7875 line
26386	SCOTIN	NM_016479.3	209	tgcacgttggtgggtgtgtatgg	38914	-	see also 11466 line

図46. (続き)

770

26387	SCOTIN	NM_016479.3	308	ctctgaactctgaagaaatttg	38918	-	see also 11466 line		
26388	SE20-4	NM_022117.1	964	ttgatcaacgcgaactgatgaaga	38930	-	see also 8281 line		
26389	SE20-4	NM_022117.1	1304	tacgctactactctgagaaagg	38935	-	see also 8281 line		
26390	SET	NM_003011.1	59	ggggccgacgagacccctcagaataa	38949	-	phosphatase	protein phosphatase	Wilms tumor (Wilms 腫瘍)
26391	SET	NM_003011.1	60	ggccgacgagacccctcagaataaag	38950	-	see also 26390 line		
26392	SET	NM_003011.1	61	ggccgacgagacccctcagaataaaga	38951	-	see also 26390 line		
26393	SETBP1	NM_015559.1	1629	ctcagaactcggagacgattcatga	38985	-	see also 11468 line		
26394	SETBP1	NM_015559.1	1631	caacgctcgaagacgattcatgagg	38986	-	see also 11468 line		
26395	SETDB1	NM_012432.1	869	cagtcgggtgtgtcgaataata	39041	-	see also 5321 line		
26396	SETDB1	NM_012432.1	3655	ggcacaactgttcgtaagaacaca	39100	-	see also 5321 line		
26397	SETDB2	NM_031915.1	2764	ggccgcttccttaatacatagttg	39171	-	see also 11470 line		
26398	SETDB2	NM_031915.1	1377	ttcagcaactccacgtgagttata	39119	-	see also 11470 line		
26399	SFPQ	NM_005066.1	2174	gaatacgaaggcccaacacaaaaa	39220	-	see also 3531 line		
26400	SFPQ	NM_005066.1	1924	tggcggagagcgaatgaacatgg	39214	-	see also 3531 line		
26401	SHPRH	NM_173082.1	3903	cagcgagtgagaaatgaataaac	39317	-	see also 10050 line		
26402	SIRT1	NM_012238.3	467	ggcgattgggttacgagataaac	39378	-	see also 5214 line		
26403	SIRT1	NM_012238.3	589	ggccacggataggtccatatact	39381	-	see also 5214 line		
26404	SIRT1	NM_012238.3	2043	gaacttattctctctagttcttg	39439	-	see also 5214 line		
26405	SIRT2	NM_012237.2	791	cgccagctcgcgcgaagaataacc	39452	-	see also 11474 line		
26406	SIRT2	NM_012237.2	812	cccgctaagctggatgaagaagga	39453	-	see also 11474 line		
26407	SIRT2	NM_012237.2	494	tcattccaccggccctctatgaca	39447	-	see also 11474 line		
26408	SIRT3	NM_012239.3	621	ccgatacccgagagccattttg	39461	-	see also 11475 line		
26409	SIRT3	NM_012239.3	959	ttgtgaagcccgacattgtgttc	39484	-	see also 11475 line		
26410	SIRT4	NM_012240.1	328	agcggactactggcgagaaacttc	39474	-	see also 11476 line		
26411	SIRT4	NM_012240.1	860	cccgattgcaatactgaacattg	39480	-	see also 11476 line		
26412	SIRT5	NM_012241.2	760	tgagatgccatggtagctttttt	39486	-	see also 11477 line		
26413	SIRT5	NM_012241.2	1008	gagctogcccaactgtgattatg	39490	-	see also 11477 line		
26414	SIRT7	NM_016538.1	1039	tggcaggatccattttctcact	39497	-	-	-	-
26415	SIRT7	NM_016538.1	837	gtccagcctgaagggtcttaaga	39496	-	see also 26414 line		
26416	SLK	NM_014720.1	3449	ctogaagaacgcacactacaaga	39572	-	see also 5913 line		
26417	SLK	NM_014720.1	1614	aacgtagtaactctgaagataaa	39531	-	see also 5913 line		
26418	SMAP1	NM_021940.2	774	gacatotttggaccgatgatttc	39604	-	see also 8204 line		
26419	SMAP1	NM_021940.2	1154	ggccatggccaatgggtttatgg	39610	-	see also 8204 line		
26420	SMAP1	NM_021940.2	762	aacgatgatctggacatctttgg	39603	-	see also 8204 line		
26421	SMARCA1	NM_003069.2	1907	atggatcgagacacatcgatttgg	39680	-	see also 2053 line		
26422	SMARCA1	NM_003069.2	1277	ttgttacgcgataaataaactga	39650	-	see also 2053 line		
26423	SMARCA2	NM_003070.2	4068	ggccatcgagacgagcgaatttg	39773	-	see also 11482 line		
26424	SMARCA2	NM_003070.2	1141	ggccgatagctcatagatataca	39710	-	see also 11482 line		
26425	SMARCA3	NM_003071.2	2320	tgtcttagactcggcaatttgt	39842	-	see also 11483 line		
26426	SMARCA3	NM_003071.2	2712	caacgattgactgacttaagaaga	39855	-	see also 11483 line		
26427	SMARCA5	NM_003601.2	1010	atcaggtccgagattanaactgg	39878	-	see also 11484 line		
26428	SMARCA5	NM_003601.2	2166	tgcgactgtgtagtagtaattt	39913	-	see also 11484 line		
26429	SMARCA5	NM_003601.2	3037	aattgggtgtgtagtagtaattga	39937	-	see also 11484 line		

図46 (続き)

771

26430	SMARCA1	NM_020159.1	1928	ttgcacggctgaacttaattac	40000	-	see also 11485 line
26431	SMARCA1	NM_020159.1	1929	tcgacggctgaacttaattacg	40001	-	see also 11485 line
26432	SMARCA1	NM_014140.2	1385	gaacccaagctgtgtctaatct	40074	-	see also 5513 line
26433	SMARCA1	NM_014140.2	697	ttcggggcaggaacatttttaca	40057	-	see also 5513 line
26434	SMARCF1	NM_006015.3	3103	gcgcgcaggtccccaataga	40111	-	see also 4188 line
26435	SMARCF1	NM_006015.3	7153	ctcggtatcacggttgatgaact	40177	-	see also 4188 line
26436	SMOX	NM_004187.1	1690	caggtcacccgggaatacacctct	40192	-	see also 2809 line
26437	SMOX	NM_004187.1	997	cactagaacgcattgtttatcc	40184	-	see also 2809 line
26438	SMCY	NM_004653.2	2223	gagacgttggtatccaatctagc	40221	-	see also 11488 line
26439	SMCY	NM_004653.2	3027	cagcgcaatggcttagatgaagt	40225	-	see also 11488 line
26440	SMYD1	NM_198274.1	957	ggctggtcccgaggggtttgatac	40250	-	see also 11489 line
26441	SMYD1	NM_198274.1	963	ttccgaggggtttgtatcatgagg	40252	-	see also 11489 line
26442	SNAI2	NM_003088.3	697	ttcgaccacacattacccttgt	40271	-	see also 11491 line
26443	SNAI2	NM_003088.3	473	aagcccatattgtagaagagg	40266	-	see also 11491 line
26444	SNAPC3	NM_003084.1	314	ggcgggtgtgcggccttgataaac	40275	-	see also 2076 line
26445	SNAPC3	NM_003084.1	1161	ttccgaatgtgcactatgattc	40297	-	see also 2076 line
26446	SNX7	NM_015976.2	640	ttgaacccaattgctgatactcc	40316	-	see also 11493 line
26447	SNX7	NM_015976.2	614	caogcaggaaggttttataaaa	40314	-	see also 11493 line
26448	SON	NM_003103.5	5400	ctcgaagtaagcgttccaaatct	40443	-	see also 2086 line
26449	SON	NM_003103.5	5436	cagcaagcgtaccagtgatct	40446	-	see also 2086 line
26450	SOS1	NM_005633.2	3589	aagcctattaccacgatatca	40566	-	see also 3904 line
26451	SOS1	NM_005633.2	1833	gaggttacgtaccatattgaag	40520	-	see also 3904 line
26452	SOX10	NM_006941.3	1494	cagccctccgacccttatgg	40572	-	see also 11496 line
26453	SOX11	NM_003108.3	700	gaoggtcaagtgctgtttctgg	40576	-	see also 2091 line
26454	SOX17	NM_022454.2	1405	gagccagctccgcggtatatta	40587	-	see also 11499 line
26455	SOX17	NM_022454.2	1345	ggcagctacccggtgtgaatct	40586	-	see also 11499 line
26456	SOX18	NM_018419.2	941	ggcgtcgtcggtgctgtactacg	40589	-	see also 11500 line
26457	SOX18	NM_018419.2	1223	cgccagcagcggtgtattaca	40591	-	see also 11500 line
26458	SOX21	NM_007084.1	515	tgctgacactgggtctcaaatg	40592	-	transcription_regulat
26459	SOX3	NM_005634.2	1104	cccatgggtctgtagtgagt	40594	-	RNA polymerase II transcription factor -
26460	SOX30	NM_007017.2	1397	gaccagcaatgacaaagctaac	40604	-	or
26461	SOX30	NM_007017.2	1241	ccctactggagccttctgtataaa	40600	-	see also 11501 line
26462	SOX7	NM_031439.2	1052	ggggaacatggatccaatgaatt	40636	-	see also 4893 line
26463	SOX7	NM_031439.2	1206	atgcacagccacgtactacaac	40639	-	see also 9029 line
26464	SOX9	NM_000346.2	1547	ccagcgaacgcacatcaagaag	40643	-	see also 9029 line
26465	SP1	NM_138473.2	1743	ggctgctgtggttatagcaaat	40670	-	see also 288 line
26466	SP1	NM_138473.2	1742	ggcctgctgtggttatagcaaa	40669	-	see also 9626 line
26467	SP100	NM_003113.2	121	cagccacgatttgcacaaagatgt	40680	-	see also 9626 line
26468	SP100	NM_003113.2	1974	acgcgcgagcaccgaagactgg	40713	-	see also 11505 line
26469	SP110	NM_004509.2	379	atcccaatctgtgacgatttac	40721	-	see also 11506 line
26470	SP110	NM_004509.2	1066	aagatgactcaacttgtaactcc	40732	-	see also 11506 line

図46 (続き)

26471	SP2	NM 003110.3	2130	ccacotggtcaggaacttg	40758	-	see also 2092 line
26472	SP3	NM 003111.1	2324	agtcgcgagagatgatacttga	40777	-	see also 11508 line
26473	SP3	NM 003111.1	2326	ctgcgcgagatgatacttga	40778	-	see also 11508 line
26474	SP3	NM 003111.1	1180	tgccctgtaagatagatagata	40768	-	see also 11508 line
26475	SP4	NM 003112.2	1530	atccgactaggtgcttatacagg	40806	-	see also 2093 line
26476	SP4	NM 003112.2	2324	aggtttatgcggagtgatcatct	40821	-	see also 2093 line
26477	SP7	NM 152860.1	167	gacggcagcgtgcagcaatttg	40825	-	see also 11509 line
26478	SP7	NM 152860.1	572	tactcaatgtggagatagcaacc	40830	-	see also 11509 line
26479	SP8	NM 182700.2	691	ccgctacgagtggtgttaagc	40843	-	see also 11510 line
26480	SP8	NM 182700.2	149	ggcgtacactgtaataagatagg	40839	-	see also 11510 line
26481	SP8	NM 182700.2	879	cgccgctcggaggtcacactcg	40844	-	see also 11510 line
26482	SPATA13	NM 153023.1	1005	ttcgtcagattgcgagtgatca	40847	-	see also 11511 line
26483	SPATA13	NM 153023.1	1243	ttgcgcagctagccactattttt	40848	-	see also 11511 line
26484	SPATA13	NM 153023.1	1244	ttgcgcagctagccactattttt	40849	-	see also 11511 line
26485	SPG3A	NM 015915.2	1586	atcatagctagcctctgcaatat	40907	-	see also 6570 line
26486	SPG3A	NM 015915.2	1089	gtcccagagagcctagatataaa	40892	-	see also 6570 line
26487	SPO11	NM 012444.2	538	gtcgtcgacaattattcaatga	40929	-	see also 11513 line
26488	SPO11	NM 012444.2	534	gactgtcgtcgacaattattca	40927	-	see also 11513 line
26489	SRCAP	NM 006662.1	5905	accgggagtgccacatatatag	41027	-	see also 11514 line
26490	SRCAP	NM 006662.1	2475	aggtcgtgtctcgtatagagg	40997	-	see also 11514 line
26491	SREBF2	NM 004599.2	1161	ggcgagcaacccataatcatct	41060	-	see also 11515 line
26492	SREBF2	NM 004599.2	2296	accgagcacactggttagatcc	41082	-	see also 11515 line
26493	SREBF2	NM 004599.2	2224	atccgctgttccgattacaca	41080	-	see also 11515 line
26494	SRISNF2L	NM 015106.1	2665	cccatgtatgcgcagattatcc	41159	-	see also 6244 line
26495	SRISNF2L	NM 015106.1	708	ttgcattgtgcgggttaatact	41109	-	see also 6244 line
26496	SRY	NM 003140.1	166	ttcgtatgtaagcgtattcaaca	41178	-	see also 11517 line
26497	SRY	NM 003140.1	638	tacaggagatgactgtaoaaagc	41190	-	see also 11517 line
26498	SSA1	NM 003141.2	990	gccaatccgtgctgatacttc	41200	-	see also 11518 line
26499	SSA1	NM 003141.2	112	cagcagcacgcttgacaaatgat	41192	-	see also 11518 line
26500	SSRP1	NM 003146.2	889	ctgactctctgtgctgattatga	41216	-	see also 2127 line
26501	SSRP1	NM 003146.2	891	gactcctcgtggtgattatgaca	41217	-	see also 2127 line
26502	SUHW2	NM 080764.2	1024	ctgcacaaattgcagctaaaagt	41246	-	see also 11520 line
26503	SUHW2	NM 080764.2	1379	ttcgtcccttcagatacccttc	41259	-	see also 11520 line
26504	SYCP1	NM 003176.2	1764	cactgcacaaagtttcaactaga	41299	-	see also 11521 line
26505	SYCP1	NM 003176.2	3070	accgttggtgctgtaattgctaaa	41323	-	see also 11521 line
26506	SYCP2	NM 014258.2	1352	gccaacacgtcgtcatatact	41356	-	see also 11522 line
26507	SYCP2	NM 014258.2	1253	ttgtattttgacgcacactaga	41349	-	see also 11522 line
26508	TAF1	NM 004606.2	2323	ggccaatgctgcagaatttga	41476	-	see also 11523 line
26509	TAF1	NM 004606.2	819	tggaaagggtgattgattttac	41475	-	see also 11523 line
26510	TAF11	NM 005643.2	172	ggctaccgacacogattggaatcc	41479	-	see also 3916 line
26511	TAF11	NM 005643.2	627	cactacaaccccaacatatagagg	41491	-	see also 3916 line
26512	TAF12	NM 005644.2	251	ggctccatggcacaatgactgc	41498	-	see also 3917 line
26513	TAF12	NM 005644.2	572	atccgacacctacaaaagcttg	41506	-	see also 3917 line
26514	TAF6	NM 005641.2	768	aagaatgtcgagccactctatgg	41515	-	see also 11526 line

図46 (続き)

26515	TAF6	NM_005641.2	1302	ctgccacgggttcagtaacttat	41521	-	see also 11526 line
26516	TAF6L	NM_006473.2	1874	ctgcctcagtcagaaactgc	41561	-	see also 11527 line
26517	TAF6L	NM_006473.2	758	ggcagcagagcctatttgaatc	41566	-	see also 11527 line
26518	TAF9L	NM_015975.3	471	taggcctgaagtccttaattaaa	41584	-	see also 11528 line
26519	TAL1	NM_003189.1	1039	gccggatgcttcctcctatgtca	41586	-	see also 11529 line
26520	TAL1	NM_003189.1	1084	gagacctcccccctagatgg	41587	-	see also 11529 line
26521	TBP	NM_003194.2	816	agcgggttgctgcggtaactcg	41601	-	see also 11531 line
26522	TBP	NM_003194.2	791	gccggaacccgaatataatcc	41600	-	see also 11531 line
26523	TBPL1	NM_004865.2	721	gtcctatcggataaaatctctaa	41627	-	see also 3383 line
26524	TBPL1	NM_004865.2	722	tgtctatcgataaaatctctaa	41628	-	see also 3383 line
26525	TBRG1	NM_032811.1	670	accagcagacctggtttcaga	41632	-	see also 11533 line
26526	TBRG1	NM_032811.1	1275	atcacagggtagcccaattcagt	41650	-	see also 11533 line
26527	TCF12	NM_003205.2	1972	cgcttacgcgtcgggatatata	41688	-	see also 2171 line
26528	TCF12	NM_003205.2	1404	gtctgaatggagatcgttag	41674	-	see also 2171 line
26529	TCF12	NM_003205.2	1117	accagcagttcacctacgttcg	41669	-	see also 2171 line
26530	TCF20	NM_005650.1	3258	aggcctaaccggaggttttaca	41756	-	see also 3919 line
26531	TCF20	NM_005650.1	200	cgctcatcccgctagagaggt	41696	-	see also 3919 line
26532	TCF21	NM_003206.2	318	gtgaacgggtgaaatggattcg	41816	-	see also 11536 line
26533	TCF21	NM_003206.2	316	atgtacagggttgaatggatt	41815	-	see also 11536 line
26534	TGF4	NM_003199.1	1097	gccaacgggacagacagtataat	41833	-	see also 2161 line
26535	TCF7	NM_003202.1	92	acgctactcgcctccaatct	41852	-	see also 11538 line
26536	TCF7	NM_003202.1	810	acctgctcgcctaagaatgc	41856	-	see also 11538 line
26537	TCF7	NM_003202.1	214	ctctctacgaacatttcaaca	41854	-	see also 11538 line
26538	TCFL1	NM_005997.1	421	ctctgacagctgggaagtctatgc	41802	-	see also 11539 line
26539	TCFL1	NM_005997.1	1104	ccgagacgttgccagaaaaatt	41878	-	see also 11539 line
26540	TCFL5	NM_006602.2	1483	agcgtattttgcggtaaaactgg	41897	-	see also 4652 line
26541	TEF	NM_003216.2	346	tcccatatgaggcggaatctttc	41901	-	transcription_regulator
26542	TEF	NM_003216.2	347	cccatatgaggcggaatctttcc	41902	-	or
26543	TEF	NM_003216.2	336	gacaagaccatcccatataggg	41900	-	see also 26541 line
26544	THAP11	NM_020457.2	419	ccgtctctgcagcgttcactcc	41911	-	see also 11540 line
26545	THAP11	NM_020457.2	962	tactggctccgaccattcgtact	41912	-	see also 11540 line
26546	THAP6	NM_144721.2	57	ctcgtcgtcccaaatcgaag	41914	-	see also 11541 line
26547	THAP6	NM_144721.2	355	aacggttcagccactactaca	41921	-	see also 11541 line
26548	THAP7	NM_030573.1	802	ctccctccagcgttatatgctgc	41944	-	see also 8890 line
26549	THAP7	NM_030573.1	398	ctgggggaatcagtgatataca	41938	-	see also 8890 line
26550	THAP8	NM_152658.1	864	gccgctccctccacagaagaata	41948	-	-
26551	THAP8	NM_152658.1	1239	acctgaggaaatccaaaccttca	41949	-	see also 26550 line
26552	THAP8	NM_152658.1	611	gccctgtagccttacaagttc	41946	-	see also 26550 line
26553	TIAL1	NM_003252.2	539	gtcgtcaaatccgaaccattgg	41954	-	see also 2195 line
26554	TIAL1	NM_003252.2	553	accaattggccactcgttaaac	41955	-	see also 2195 line
26555	TIF1	NM_003852.2	1776	tcagcccccacgattactgctgc	42005	-	see also 2616 line
26556	TIF1	NM_003852.2	2044	gtgtacaccccccaatacgttca	42021	-	see also 2616 line
26557	TIGD4	NM_145720.2	1100	tgttcgagtggtacgtctaaaag	42061	-	see also 11545 line

図46 (続き)

26558	TIGD4	NM_145720.2	1066	atcgaaatgctcagtgctctaat	42059	-	see also 11545 line
26559	TIGD4	NM_145720.2	1107	atgttaagcttaaaagctaatga	42063	-	see also 11545 line
26560	TIGD5	NM_032862.2	545	acgggacagcagcagctaacagc	42106	-	see also 11546 line
26561	TIGD5	NM_032862.2	1122	cgccttcaaacagcgttacacagc	42108	-	see also 11546 line
26562	TIGD6	NM_030953.2	1386	caggcatcgtccctatggaattt	42144	-	see also 11547 line
26563	TIGD6	NM_030953.2	1388	ggcatcgtccctatggaatttc	42146	-	see also 11547 line
26564	TIGD7	NM_033208.2	1603	gaggtccgcacatttcaacttaa	42178	-	see also 11548 line
26565	TIGD7	NM_033208.2	1795	agctcaaacagcgtctatagatg	42193	-	see also 11548 line
26566	TIMELESS	NM_003920.1	2914	ggccgaatagtggtataaactct	42257	-	see also 2682 line
26567	TIMELESS	NM_003920.1	1206	acgggtcctcaggtatcagtaag	42225	-	see also 2682 line
26568	TMF1	NM_007114.1	2304	aagaccattgcttcgacaaatag	42327	-	see also 11550 line
26569	TMF1	NM_007114.1	3207	tcgattagatctcgaagatgtaa	42350	-	see also 11550 line
26570	TMX2	NM_015959.1	636	ttggacgctatactgatttagt	42367	-	see also 11551 line
26571	TMX2	NM_015959.1	629	gtggatgttgacgctatactga	42366	-	see also 11551 line
26572	TNFAIP3	NM_006290.2	338	agctgtggcgtcgaacacgaac	42377	-	see also 4384 line
26573	TNFAIP3	NM_006290.2	815	tcggctatgacagccatcatttt	42387	-	see also 4384 line
26574	TNP1	NM_003284.2	32	gtcgaccagccgcgaattaaaga	42403	-	see also 11553 line
26575	TNP2	NM_005425.2	346	caaccgccattgccaaccccca	42404	-	-
26576	TNP2	NM_005425.2	501	caacaaagccgcacaaaaagact	42407	-	see also 26575 line
26577	TNP2	NM_005425.2	498	caccacaaagccgcacaaaaag	42405	-	see also 26575 line
26578	TNxB	NM_019105.4	11614	cccggtgacctccaattcagtgga	42439	-	see also 7710 line
26579	TNxB	NM_019105.4	12598	gaggaatgcccattggtttgg	42441	-	see also 7710 line
26580	TOP1	NM_003286.2	292	ttccgattgaatgattotcataa	42445	-	see also 2222 line
26581	TOP1	NM_003286.2	1525	atcatgcttaacctagtctcag	42474	-	see also 2222 line
26582	TOP1MT	NM_052963.1	229	tcocgacggagtgctttctct	42478	-	see also 11555 line
26583	TOP1MT	NM_052963.1	772	ttggaccggagagcgttcgaact	42496	-	see also 11555 line
26584	TOP2A	NM_001067.2	1482	cactgagtgacgcttactctga	42551	-	see also 653 line
26585	TOP2A	NM_001067.2	2531	gtccacagatcacatctttacaatg	42583	-	see also 653 line
26586	TOP2B	NM_001068.2	3492	agggcgagaggtcaatgatctta	42747	-	see also 656 line
26587	TOP2B	NM_001068.2	3129	aagttattacgggttacgaagg	42738	-	see also 656 line
26588	TOP3A	NM_004618.2	1437	cccacacgaatgggaacaagtct	42795	-	see also 3135 line
26589	TOP3A	NM_004618.2	1520	cagcgactgtacgaggtttatgt	42799	-	see also 3135 line
26590	TOP3B	NM_003935.3	1528	gacacgtgaagcgggttttagc	42832	-	see also 11559 line
26591	TOP3B	NM_003935.3	2063	tcctgtgcaaggctactataag	42842	-	see also 11559 line
26592	TOX	NM_014729.1	1623	ctcttaacccgactatcagact	42878	-	see also 5919 line
26593	TRERF1	NM_018415.1	3709	ttcagggtagcgcagaaactaa	42913	-	see also 7454 line
26594	TRERF1	NM_018415.1	2915	ccgacacgcctggcagaataca	42904	-	see also 7454 line
26595	TRIM26	NM_003449.2	1029	accattgctcaggttggttaaaa	42921	-	see also 11562 line
26596	TRIM26	NM_003449.2	1030	ccattgctcaggttggttaaaa	42922	-	see also 11562 line
26597	TRIM33	NM_015906.2	1974	tcocgtagatcgggtacacaca	42975	-	see also 11563 line
26598	TRIM33	NM_015906.2	3159	ggccgatgcgctttgtatttca	43005	-	see also 11563 line
26599	TRIM33	NM_015906.2	3045	tgcttcgataccaaactactata	42999	-	see also 11563 line
26600	TRPV6	NM_018646.2	2330	gagacctgctgggtatacaac	43023	-	see also 11564 line
26601	TRPV6	NM_018646.2	2328	gagagacctgctgggtataca	43022	-	see also 11564 line

図46 (続き)

26602	TSG101	NM_006292.2	819	ctctcggctcagtgacaaactga	43046	-	see also 4386 line
26603	TSG101	NM_006292.2	308	tgccttatagaggtaatacatat	43030	-	see also 4386 line
26604	TSG1	NM_004622.2	813	agcgtctacacgagattgaatat	43073	-	see also 11566 line
26605	TSN	NM_004622.2	814	gcgtctacgacgagattgaatatg	43074	-	see also 11566 line
26606	TSNAX	NM_005999.2	572	aacacgataatattagattaggg	43094	-	see also 4185 line
26607	TSPYL3	NM_178465.1	415	ctgaaccttggtgccttaattgt	43112	-	see also 11568 line
26608	TSPYL3	NM_178465.1	545	tcgcccgtaggagcttcattatc	43113	-	see also 11568 line
26609	TSPYL4	NM_021648.3	183	tgcagcgcagagtttcattatc	43119	-	see also 11569 line
26610	TSPYL4	NM_021648.3	387	atgaggggcttgctcaaggaaat	43121	-	see also 11569 line
26611	TTF2	NM_003594.3	75	gtccgcgtaggcgcgaataaagg	43125	-	see also 11570 line
26612	TTF2	NM_003594.3	78	cgcgatggcccgaaataaaggaaa	43126	-	see also 11570 line
26613	TWIST2	NM_051719.1	502	acgagatggacaaataagatgacc	43202	-	see also 9501 line
26614	UBE2V1	NM_021988.3	447	ttgaacctagaaaaattttcaactgc	43203	-	transcription_regulat
26615	UBTF	NM_014233.1	385	aggaagttccgctacattgcaga	43204	-	or -
26616	UBTF	NM_014233.1	2086	gagtcacatctccaataaacgttaa	43215	-	see also 5550 line
26617	UPLC1	NM_017707.2	457	gacggctgcagacagattccaaaaa	43220	-	see also 11572 line
26618	UPLC1	NM_017707.2	458	acggctgcagacagattccaaaaa	43221	-	see also 11572 line
26619	UPLC1	NM_017707.2	976	aagaaagtgacgggaattcgaag	43226	-	see also 11572 line
26620	USF1	NM_007122.2	455	ctgagacgcactatacttacttc	43237	-	see also 4956 line
26621	USF1	NM_007122.2	265	tcagttctccgaactcagaatgg	43235	-	see also 4956 line
26622	VAT1	NM_006373.2	554	tctctccttctagtgaattaca	43253	-	see also 11574 line
26623	VAT1	NM_006373.2	558	gccttgctgcctcaattacattac	43256	-	see also 11574 line
26624	WBSR14	NM_032951.1	590	accacaagtgccgcactctactac	43261	-	see also 11575 line
26625	WBSR14	NM_032951.1	1153	agcgcctcttgagttctgattt	43265	-	see also 11575 line
26626	WDHD1	NM_007086.1	2879	ctgcaattagtcgaactacaaat	43373	-	see also 4947 line
26627	WDHD1	NM_007086.1	2880	tgcacttagtgaactacaaata	43374	-	see also 4947 line
26628	WDTC1	NM_015023.2	2246	agccgagctcgtgggaagatagg	43415	-	see also 6189 line
26629	WDTC1	NM_015023.2	1957	agcgaagctacgactatcagttc	43410	-	see also 6189 line
26630	WHSC1	NM_007331.1	2318	ttaagctctgggttgatgcacaaa	43449	-	see also 11578 line
26631	WHSC1	NM_007331.1	2323	ctcttgggttgacaaaagtcca	43450	-	see also 11578 line
26632	WHSC1L1	NM_017778.2	1472	gagggcgtgggttcattgaataac	43517	-	see also 11579 line
26633	WHSC1L1	NM_017778.2	2057	aggggatgggaaatttatcgatc	43531	-	see also 11579 line
26634	WRN	NM_000553.2	2706	tacgttaactccagatactattc	43663	-	see also 11580 line
26635	WRN	NM_000553.2	4758	cccgtaactcagatatagagtaa	43738	-	see also 11580 line
26636	WRN	NM_000553.2	4358	gagaccaactacggttgaaacg	43725	-	see also 11580 line
26637	WRNIP1	NM_020135.2	1299	agccgctgtcgagtgattgtct	43755	-	see also 11581 line
26638	WRNIP1	NM_020135.2	1296	ctgagccgctgtcgagtgattgt	43753	-	see also 11581 line
26639	YBX2	NM_015982.1	515	ggcgagagagccactaatgtaac	43775	-	see also 11582 line
26640	ZBED2	NM_024508.1	215	cactcaatgcccaacaacagg	43776	-	-
26641	ZBED2	NM_024508.1	246	tctctgaggaatgggaattatt	43777	-	see also 26640 line
26642	ZBED4	NM_014838.1	1085	tcocgcccccgatcgataaaca	43792	-	see also 11584 line
26643	ZBED4	NM_014838.1	1089	gtcccccgcgatcgaataacagagg	43794	-	see also 11584 line
26644	ZBTB2	NM_020861.1	400	ctcatagaccgggttcgattaga	43839	-	see also 11585 line

776

図46 (続き)

26645	ZBTB2	NM_020861.1	403	atgacccagggttcgattagaaca	43840	-	see also 11585 line
26646	ZBTB2	NM_020861.1	219	tgaatcggcgatgtacttca	43833	-	see also 11585 line
26647	ZBTB3	NM_024784.2	135	gagcgaaaagaatctctacttcg	43866	-	see also 8746 line
26648	ZF	NM_021212.1	1004	cgtacctacaggcagctttagc	43886	-	see also 11587 line
26649	ZF	NM_021212.1	1250	aaggcgtctctctctcttaaat	43887	-	see also 11587 line
26650	ZF	NM_021212.1	1252	ggcgtctctctctcttaaatgt	43889	-	see also 11587 line
26651	ZFD25	NM_016220.2	1385	accaacactcaaaccttaaac	43890	-	see also 11588 line
26652	ZFP161	NM_003409.2	285	ttcttggtcatagaaatagatt	43898	-	see also 11589 line
26653	ZFP161	NM_003409.2	692	aggaaagtcggaagtcgaattgc	43911	-	see also 11589 line
26654	ZFP28	NM_020828.1	968	aggccagcagatctgtacataga	43935	-	see also 11590 line
26655	ZFP28	NM_020828.1	1186	gagaaagtcacatacaaatct	43942	-	see also 11590 line
26656	ZFP36	NM_003407.1	488	gacggaactctgtcacagttct	43953	-	see also 11591 line
26657	ZFP36	NM_003407.1	464	ggcgaatgccaccacaataca	43952	-	see also 11591 line
26658	ZFP64	NM_018197.2	830	gacatggagcggcatttaaaat	43966	-	see also 7313 line
26659	ZFP64	NM_018197.2	828	aggacatggagcggcatttaaaa	43965	-	see also 7313 line
26660	ZFP64	NM_018197.2	539	ccagcacgctccagttgtatc	43957	-	see also 7313 line
26661	ZFX	NM_003410.1	771	gactaccgagctagttcagaag	43988	-	see also 11593 line
26662	ZFX	NM_003410.1	767	ctctgactaccgagctagtttca	43986	-	see also 11593 line
26663	ZFY	NM_003411.2	788	tcctctgacggagtgacatagttt	43994	-	see also 11594 line
26664	ZFY	NM_003411.2	969	gtgacatcagtcagcaaatcaga	43997	-	see also 11594 line
26665	ZIC2	NM_007129.2	501	gcgcacggtctgcagaaatgctc	44001	-	see also 11595 line
26666	ZIC2	NM_007129.2	720	cgtgctcttccgctatagtc	44002	-	see also 11595 line
26667	ZIC3	NM_003413.2	1766	gccagttcagctatgaattcttc	44008	-	see also 2308 line
26668	ZIC4	NM_032153.2	770	cggaaacaggcccaaccatttgc	44016	-	see also 11597 line
26669	ZIC4	NM_032153.2	773	aacagcccaaccacatttgccttc	44017	-	see also 11597 line
26670	ZIC5	NM_033132.2	1774	aagatccaaagcgtactatcac	44028	-	see also 9376 line
26671	ZIM3	NM_052882.1	771	ctgggcatagatgatgtatcttc	44040	-	see also 11599 line
26672	ZIM3	NM_052882.1	743	atgtgacggatcttaagaaataac	44038	-	see also 11599 line
26673	ZNF10	NM_015394.4	1835	gtggacagcgtctgttaatacc	44091	-	see also 11600 line
26674	ZNF10	NM_015394.4	1682	tcgggaagaatgacctatttaag	44082	-	see also 11600 line
26675	ZNF124	NM_003431.1	830	cccgctcttataagacataaaa	44101	-	see also 11601 line
26676	ZNF124	NM_003431.1	829	tcocgtctcttaataagacataa	44100	-	see also 11601 line
26677	ZNF124	NM_003431.1	701	atggacattatgtgtgataata	44097	-	see also 11601 line
26678	ZNF136	NM_003437.2	976	ccaaacttaagaaataacataaaa	44122	-	see also 11602 line
26679	ZNF136	NM_003437.2	1058	ctccctcccttcgactacatga	44123	-	see also 11602 line
26680	ZNF14	NM_021030.2	1776	ttcgtccagtcgaattcgattg	44140	-	see also 11603 line
26681	ZNF14	NM_021030.2	1785	gtcaaatcgatgctgaagaaag	44141	-	see also 11603 line
26682	ZNF141	NM_003441.1	1377	cacagatcgagtgcaacataaga	44144	-	see also 11604 line
26683	ZNF141	NM_003441.1	1463	cgtctctgagtcacataagaaa	44146	-	see also 11604 line
26684	ZNF143	NM_003442.3	1118	tgcggtcgtctcttaccacatc	44176	-	see also 11605 line
26685	ZNF143	NM_003442.3	1753	aggaaacgactctgtgtctatgg	44197	-	see also 11605 line
26686	ZNF146	NM_007145.1	1015	tagccaaagcagtatgtcatta	44203	-	see also 11606 line
26687	ZNF146	NM_007145.1	1056	ctggcgagaagcttttcgaattg	44207	-	see also 11606 line
26688	ZNF148	NM_021964.1	925	tgccctttagaacgaactatcaat	44224	-	see also 8219 line

777

図46 (続き)

26689	ZNF151	NM_003443.1	2370	gacagacggggaacttctatcagc	44287	-	see also 11607 line
26690	ZNF151	NM_003443.1	1470	ccacactcgcgaagaagtcca	44283	-	see also 11607 line
26691	ZNF16	NM_006958.2	240	acccctctgtatgtatctga	44288	-	see also 11608 line
26692	ZNF16	NM_006958.2	1345	gtcgggtctcaacctattaa	44299	-	see also 11608 line
26693	ZNF160	NM_033288.2	522	accaagaagccgggaatgtca	44305	-	see also 11609 line
26694	ZNF160	NM_033288.2	563	tcctcttaattgacaataaag	44306	-	see also 11609 line
26695	ZNF177	NM_003451.1	1360	agcacaagcactaacctataat	44329	-	see also 11610 line
26696	ZNF177	NM_003451.1	1359	tagcacaagcactaacctataa	44328	-	see also 11610 line
26697	ZNF180	NM_013256.1	1437	gcccggagctcgacctttttcc	44347	-	see also 11611 line
26698	ZNF180	NM_013256.1	1113	gcccgtgtacacccctacatata	44342	-	see also 11611 line
26699	ZNF184	NM_007149.1	301	ctocaaagggggacataatctact	44353	-	see also 4960 line
26700	ZNF184	NM_007149.1	1483	atccgtcatcatatgattcatc	44366	-	see also 4960 line
26701	ZNF195	NM_007152.1	471	atgcattctctcactagctatgt	44375	-	see also 11613 line
26702	ZNF195	NM_007152.1	1200	aacatgtacaaaaggatttaacc	44383	-	see also 11613 line
26703	ZNF20	NM_021143.1	920	tagtgaatcgttagacataaaa	44389	-	see also 11614 line
26704	ZNF20	NM_021143.1	587	ctctttcaatcacatgataaag	44387	-	see also 11614 line
26705	ZNF208	NM_007153.1	643	acccctactattataagagtc	44391	-	transcription_regulat or
26706	ZNF212	NM_012256.2	952	gggtcccggaagcagaatctca	44392	-	transcription_regulat or
26707	ZNF212	NM_012256.2	956	ggccgaagcagaatctcatagg	44393	-	see also 26706 line
26708	ZNF214	NM_013249.1	1075	aagctgtacgattgtatgaagt	44414	-	see also 11615 line
26709	ZNF214	NM_013249.1	1151	taggggaggtacattatagctgt	44419	-	see also 11615 line
26710	ZNF216	NM_006007.1	572	tgcctgttaactcagcaaatgaca	44431	-	see also 11616 line
26711	ZNF22	NM_006963.1	185	gtgggagcactacttctgatttg	44435	-	see also 11617 line
26712	ZNF22	NM_006963.1	746	gtggctgtctcgttaagtata	44440	-	see also 11617 line
26713	ZNF221	NM_013359.1	816	gtcacgtgcacacagaaccttac	44441	-	see also 11618 line
26714	ZNF221	NM_013359.1	1106	gggaaaggcttcctatagatc	44443	-	see also 11618 line
26715	ZNF222	NM_013360.1	511	ttccagggtgaaaattgttaaca	44448	-	see also 11619 line
26716	ZNF222	NM_013360.1	1296	tagcaatcttcttagtatttga	44451	-	see also 11619 line
26717	ZNF223	NM_013361.2	1230	ttcgttagctgggttggtgaag	44456	-	see also 11620 line
26718	ZNF223	NM_013361.2	591	ggcctcaagactctaccataaag	44453	-	see also 11620 line
26719	ZNF224	NM_013398.1	1530	tacaaaattcaaatgctatttc	44462	-	see also 11621 line
26720	ZNF224	NM_013398.1	2200	ttgtacagaattcattctctaaa	44463	-	see also 11621 line
26721	ZNF225	NM_013362.1	1136	agcttccttagtagagcaaatct	44468	-	see also 11622 line
26722	ZNF225	NM_013362.1	696	agggtagacggtgaaagaatcc	44466	-	see also 11622 line
26723	ZNF225	NM_013362.1	1140	tcggttagtagcgaatcttaatt	44469	-	see also 11622 line
26724	ZNF226	NM_015919.2	349	aaccgaagacaggggaatttag	44476	-	see also 11623 line
26725	ZNF228	NM_013380.2	807	atccatgtactgggtatagaaa	44511	-	see also 11624 line
26726	ZNF228	NM_013380.2	309	aagtaacagttaagctatttcc	44498	-	see also 11624 line
26727	ZNF23	NM_145911.1	1759	agcgttcaattgtaataaataa	44554	-	see also 11625 line
26728	ZNF23	NM_145911.1	1758	aagcgttcaattgtaataaataa	44553	-	see also 11625 line
26729	ZNF230	NM_006300.1	1503	ggcttgtaacacccgtcttctgt	44567	-	see also 11626 line
26730	ZNF230	NM_006300.1	637	ttcacagaatgggaagttaaac	44564	-	see also 11626 line

778

図46 (続き)

26731	ZNF234	NM_006630.1	1122	aagaactccgtcgtatagcgc	44578	-	see also 11627 line
26732	ZNF234	NM_006630.1	2223	agctggcgtacaaatctgttaag	44583	-	see also 11627 line
26733	ZNF235	NM_004234.3	1045	aagcgtattgtgtcgtatgaatg	44605	-	see also 11628 line
26734	ZNF235	NM_004234.3	561	aactgtctagtgaatcacatagg	44591	-	see also 11628 line
26735	ZNF238	NM_006352.2	714	atctgaacagcgacattgttaca	44609	-	see also 4445 line
26736	ZNF238	NM_006352.2	1416	aagaagtgtagcactataaac	44621	-	see also 4445 line
26737	ZNF239	NM_005674.1	1032	ctggcctgcctatgttaaatgg	44636	-	see also 11629 line
26738	ZNF239	NM_005674.1	2001	caaggggtcacagaagaatgcc	44641	-	see also 11629 line
26739	ZNF25	NM_145011.2	346	gacctatggagcattcatatct	44648	-	see also 11630 line
26740	ZNF25	NM_145011.2	115	ttccaggagacogtgacattaaa	44642	-	see also 11630 line
26741	ZNF258	NM_007167.1	394	aaggccaaactgcataatataa	44655	-	see also 11631 line
26742	ZNF258	NM_007167.1	396	gggccaaactgcataatataa	44657	-	see also 11631 line
26743	ZNF26	NM_019591.2	519	ctgatatacgtgggggtatcatgg	44696	-	see also 11632 line
26744	ZNF26	NM_019591.2	1932	tgaattcagggctcgtatata	44711	-	see also 11632 line
26745	ZNF261	NM_005096.1	3258	tagttgtacccggctcaactatt	44751	-	see also 3559 line
26746	ZNF261	NM_005096.1	4023	gactgcgaacgtagtgtttctacc	44781	-	see also 3559 line
26747	ZNF262	NM_005095.1	1955	atcatcggtgatgcaagtactca	44814	-	see also 11634 line
26748	ZNF262	NM_005095.1	745	atcgtgtatcacggcatataaagc	44793	-	see also 11634 line
26749	ZNF264	NM_003417.1	1348	ggctttctcaggcaactatgtgt	44867	-	see also 11635 line
26750	ZNF264	NM_003417.1	933	aggttaagatcccatgattcagg	44865	-	see also 11635 line
26751	ZNF266	NM_006631.2	1864	acctctgtctgctatacaaat	44879	-	see also 11636 line
26752	ZNF266	NM_006631.2	2606	tacgaattctccagctttaata	44887	-	see also 11636 line
26753	ZNF267	NM_003414.3	724	taggcaggctctctactctaaata	44898	-	see also 11637 line
26754	ZNF267	NM_003414.3	1629	aagttcttagccgttagtcttctgc	44914	-	see also 11637 line
26755	ZNF271	NM_006629.3	1657	tggcggttcgtatctcaaac	44932	-	see also 4686 line
26756	ZNF271	NM_006629.3	1233	tagtcgccttcagatcttctgta	44926	-	see also 4686 line
26757	ZNF278	NM_014323.2	1938	atcaattgaacgggacataatcaag	44951	-	see also 11639 line
26758	ZNF278	NM_014323.2	1532	atccttcacatcggtctatgtgg	44946	-	see also 11639 line
26759	ZNF282	NM_003575.1	1056	gcoatccctacggaatccattac	44963	-	see also 11640 line
26760	ZNF282	NM_003575.1	1101	gacctttgtccaggattaaaca	44964	-	see also 11640 line
26761	ZNF286	NM_020652.1	735	cagactgaacacgggaatgtgtct	44971	-	see also 11641 line
26762	ZNF286	NM_020652.1	741	gacacgggaatagtgctatgaact	44973	-	see also 11641 line
26763	ZNF288	NM_015642.1	1036	ggcgagagcgtctttttacagc	44999	-	see also 6532 line
26764	ZNF288	NM_015642.1	1902	cccggtctgtcgaccttactgc	45004	-	see also 6532 line
26765	ZNF289	NM_032389.2	135	cagcatcaactgacgtgtttttct	45014	-	see also 11643 line
26766	ZNF289	NM_032389.2	279	tgcgaatgcagcgttttttttc	45017	-	see also 11643 line
26767	ZNF289	NM_032389.2	278	atgccaatgcagcgttttttttc	45016	-	see also 11643 line
26768	ZNF297	NM_005453.3	1029	tacgtgaacgaggttgtaattg	45046	-	see also 3800 line
26769	ZNF297	NM_005453.3	300	ctctgcggtatctatcatagagt	45043	-	see also 3800 line
26770	ZNF297B	NM_014007.1	1415	atgcgcgtccagaaattgttag	45070	-	see also 5452 line
26771	ZNF297B	NM_014007.1	2463	acgggaatgactcttttctact	45089	-	see also 5452 line
26772	ZNF300	NM_052860.1	863	acctaccaggtgttataaagc	45102	-	see also 11646 line
26773	ZNF300	NM_052860.1	702	caggcaggtcacattgttaaca	45098	-	see also 11646 line
26774	ZNF302	NM_018443.1	518	ccccaccagtaacaatggaaaa	45112	-	see also 11647 line

779

図46 (続き)

26775	ZNF302	NM_018443.1	1430	aagttagaaatgcagaaatcc	45114	-	see also 11647 line
26776	ZNF304	NM_020657.1	2208	gagctacagtgcaacagattt	45133	-	see also 11648 line
26777	ZNF304	NM_020657.1	836	cagcacagaccactacaatag	45128	-	see also 11648 line
26778	ZNF317	NM_020933.2	934	tacgacgggagaaatcatga	45142	-	see also 11649 line
26779	ZNF317	NM_020933.2	1399	ttcgcctggagagtcacatttaa	45144	-	see also 11649 line
26780	ZNF32	NM_006973.1	630	ttcaggaatcagataacattgc	45164	-	see also 11650 line
26781	ZNF32	NM_006973.1	178	atgtagcttcttcattgatg	45158	-	see also 11650 line
26782	ZNF325	NM_016265.1	995	aacgtctgtttcagaatattta	45171	-	see also 11651 line
26783	ZNF325	NM_016265.1	1109	aggagatacagcttatgaattta	45173	-	see also 11651 line
26784	ZNF331	NM_018555.3	1575	aagcccttactcagtcgaattta	45197	-	see also 11652 line
26785	ZNF331	NM_018555.3	1577	ggccttactcagtcgaattta	45199	-	see also 11652 line
26786	ZNF333	NM_032433.1	1167	tccgtagtgaggataaactctat	45212	-	see also 11653 line
26787	ZNF333	NM_032433.1	1636	ccggacagcagactcactgaacg	45218	-	see also 11653 line
26788	ZNF334	NM_018102.3	1752	ggcatcgccgtcagcaaaactca	45249	-	see also 11654 line
26789	ZNF334	NM_018102.3	797	ttgaacaacccgttgactataa	45234	-	see also 11654 line
26790	ZNF335	NM_022095.3	1078	ggagatagcagactataatccgc	45260	-	see also 8267 line
26791	ZNF335	NM_022095.3	1073	tgagagagatagcagactataat	45258	-	see also 8267 line
26792	ZNF336	NM_022482.3	212	atggtactagactaatgtctac	45282	-	see also 8409 line
26793	ZNF336	NM_022482.3	1733	atcgtgtcggcaggacattccac	45309	-	see also 8409 line
26794	ZNF337	NM_015655.2	362	ggccctgtgcaggataatg	45312	-	see also 11657 line
26795	ZNF337	NM_015655.2	1098	gtggcggagcttactactaataag	45321	-	see also 11657 line
26796	ZNF339	NM_021220.2	540	ccgggtgcagatcgaaatca	45347	-	see also 11658 line
26797	ZNF339	NM_021220.2	539	gcccgggtccagatcgaaatc	45346	-	see also 11658 line
26798	ZNF339	NM_021220.2	545	tcgccagatcgaaatcaagttc	45349	-	see also 11658 line
26799	ZNF341	NM_032819.3	915	ctgaagaccgcagcagctaaagc	45363	-	see also 11659 line
26800	ZNF341	NM_032819.3	1143	ggcacccgtgtctcgaaactgtg	45365	-	see also 11659 line
26801	ZNF342	NM_145288.1	1117	gccatcacccagcaaaagaac	45377	-	transcription_regulat
26802	ZNF342	NM_145288.1	1120	atcacccagcaaaagaactga	45378	-	or
26803	ZNF342	NM_145288.1	1222	gagttctcggggaagcattttac	45380	-	see also 26801 line
26804	ZNF345	NM_003419.2	1097	agcagtggttcggcttactctg	45383	-	see also 26801 line
26805	ZNF345	NM_003419.2	1818	aactctgcgaattggaaactata	45387	-	see also 11660 line
26806	ZNF345	NM_003419.2	1820	ctctgcgaattggaaactataaa	45388	-	see also 11660 line
26807	ZNF347	NM_032584.1	277	gagagccaagtacataatgcagg	45393	-	see also 11661 line
26808	ZNF347	NM_032584.1	482	cacatggcttgagtatcaatgc	45395	-	see also 11661 line
26809	ZNF354A	NM_005649.2	1120	agccgaagtcaggcctttttat	45414	-	see also 11662 line
26810	ZNF354A	NM_005649.2	1037	ctctcagtcacatccctttataaa	45413	-	see also 11662 line
26811	ZNF358	NM_018083.1	254	acccctgattctcagctataca	45416	-	transcription_regulat
26812	ZNF358	NM_018083.1	225	gacctgacccagatgattgg	45415	-	or
26813	ZNF358	NM_018083.1	603	cgctccagctcgtgaaacatcg	45417	-	see also 26811 line
26814	ZNF366	NM_152625.1	1830	gaacgcacatgaagatcaagc	45421	-	see also 26811 line
26815	ZNF366	NM_152625.1	2328	ttctgattacttactcaagc	45422	-	see also 11663 line
26816	ZNF382	NM_032825.2	400	ggcatttagaccctctatcttc	45426	-	see also 11664 line

図46 (続き)

780

26817	ZNF382	NM_032825.2	1156	aacccttatttgatgatgt	45446	-	see also 11664 line
26818	ZNF384	NM_133476.2	642	ggagtcgggtttgtaatacag	45453	-	see also 11665 line
26819	ZNF384	NM_133476.2	535	aggctcggttaccaggaataca	45452	-	see also 11665 line
26820	ZNF398	NM_020781.2	1089	gacgtgtacaaaagcactatgc	45473	-	see also 7966 line
26821	ZNF398	NM_020781.2	1984	tccgaagacacacacacacacac	45476	-	see also 7966 line
26822	ZNF408	NM_024741.1	373	cgcgagacatcctcgtttaag	45488	-	see also 11667 line
26823	ZNF408	NM_024741.1	376	ggagacatcctcgtttaagagc	45490	-	see also 11667 line
26824	ZNF409	NM_014894.1	1843	ctcgaggagagacacacactgt	45507	-	see also 11668 line
26825	ZNF409	NM_014894.1	1208	ctgcaagcgctcactaagcttc	45506	-	see also 11668 line
26826	ZNF43	NM_003423.1	956	tgccttcaatcactcaactaaac	45520	-	see also 11669 line
26827	ZNF43	NM_003423.1	955	ctgccttcaatcactcaactaac	45519	-	see also 11669 line
26828	ZNF431	NM_133473.1	540	ctccgcaagtgtagatgagtata	45525	-	see also 11671 line
26829	ZNF431	NM_133473.1	541	tccgaagtgtagatgagtataa	45526	-	see also 11671 line
26830	ZNF432	NM_014650.1	1369	agcgtatgatcggaacacacg	45544	-	see also 11672 line
26831	ZNF432	NM_014650.1	1110	aggcaagcgtatctcattgttac	45540	-	see also 11672 line
26832	ZNF433	NM_152602.1	324	accacgaacacatataatgagt	45562	-	see also 11673 line
26833	ZNF433	NM_152602.1	338	atgtagagtagcgaataatctaaag	45563	-	see also 11673 line
26834	ZNF436	NM_030634.1	777	cacaggcatccgctatcatatata	45575	-	see also 11674 line
26835	ZNF436	NM_030634.1	781	ggcatcgcgtatcatatatttc	45577	-	see also 11674 line
26836	ZNF439	NM_152262.1	1393	gccccaaattctcaattgcatgg	45586	-	transcription_regulat
26837	ZNF439	NM_152262.1	1389	atctgcccaaatctcaattgc	45585	-	or
26838	ZNF44	NM_016264.1	387	acctaaagccagatcggaatag	45588	-	see also 26836 line
26839	ZNF44	NM_016264.1	691	tccgaagacatagtagtaaaa	45591	-	see also 11675 line
26840	ZNF441	NM_152355.1	1449	tccatttgacacttccctca	45600	-	see also 11675 line
26841	ZNF441	NM_152355.1	1200	tctctgattgacacaggttttc	45599	-	see also 11676 line
26842	ZNF442	NM_030824.1	838	gaggagcctaagatgcatatca	45605	-	see also 11677 line
26843	ZNF442	NM_030824.1	948	gagaaatcatgggtgtgttcattc	45608	-	see also 11677 line
26844	ZNF443	NM_005815.2	1723	tccggtcaattatgataactaaa	45611	-	apoptosis,
26845	ZNF450	NM_014797.1	945	gagatccgtcaaaccttaagatt	45628	-	transcription_regulat
26846	ZNF450	NM_014797.1	1831	ctcgtaaccgattctgtacataa	45643	-	or
26847	ZNF481	NM_020924.2	1024	tgcgtgtgcatgcccgaattaaa	45675	-	see also 5992 line
26848	ZNF481	NM_020924.2	1029	gtgcataccggaataaaccttt	45677	-	see also 5992 line
26849	ZNF482	NM_006626.3	1135	tgggcataccgccccttcaagt	45711	-	see also 8031 line
26850	ZNF482	NM_006626.3	764	cagtacagctggtgtcgaataatg	45702	-	see also 8031 line
26851	ZNF490	NM_020714.1	1181	accggattcaacctatacatg	45728	-	see also 11680 line
26852	ZNF490	NM_020714.1	723	ctcgagctccagatttcgaacc	45720	-	see also 11681 line
26853	ZNF510	NM_014930.1	1360	cacagagttcccggaagagtc	45761	-	see also 11681 line
26854	ZNF510	NM_014930.1	1268	aagagaaacccattgtaagt	45757	-	see also 11682 line
26855	ZNF6	NM_021998.2	961	gtcgactctccacaatggtatc	45777	-	see also 11682 line
26856	ZNF6	NM_021998.2	2407	gaccttaagcgcacacatcatc	45836	-	see also 8241 line
26857	ZNF7	NM_003416.1	2102	gtgagccgtaaaaagggttaaac	45871	-	see also 8241 line

781

図46 (続き)

26858	ZNF7	NM_003416.1	476	tcacagacagattctacgattag	45854	-	see also 11684 line
26859	ZNF71	NM_021216.3	629	gcggaagctcgtccctataaag	45855	-	see also 11685 line
26860	ZNF71	NM_021216.3	485	ggctgagagacccacagaaaag	45882	-	see also 11685 line
26861	ZNF74	NM_003426.1	1784	cagccaagtggagccagaaaagt	45887	-	see also 11686 line
26862	ZNF76	NM_003427.3	1184	accgagctactcagcttgataa	45902	-	see also 2314 line
26863	ZNF76	NM_003427.3	736	cacgcctcacttaaggtgc	45895	-	see also 2314 line
26864	ZNF79	NM_007135.1	527	aggagtgtagcgttagctttgc	45912	-	see also 11688 line
26865	ZNF79	NM_007135.1	727	ctctcagctcggagattatat	45913	-	see also 11688 line
26866	ZNF8	NM_021089.1	842	tccagtcaggccatccaattac	45921	-	see also 11689 line
26867	ZNF8	NM_021089.1	1267	tccgacacctgcctttctcgc	45924	-	see also 11689 line
26868	ZNF84	NM_003428.1	863	aggatactgatacctgttataaa	45934	-	see also 11690 line
26869	ZNF84	NM_003428.1	950	atcgtttaggaggaaactctat	45938	-	see also 11690 line
26870	ZNFN1A1	NM_006060.2	744	ggagacgacactcgttgtaaac	45958	-	see also 11691 line
26871	ZNFN1A1	NM_006060.2	972	aagtaacgtcgccaaacgttaaga	45963	-	see also 11691 line
26872	ZNFN1A2	NM_016260.1	1695	aggacgcttaggttttcatca	45998	-	see also 6775 line
26873	ZNFN1A2	NM_016260.1	482	atcggcttcggaatgttaact	45968	-	see also 6775 line
26874	ZT86	NM_015871.2	252	ggcctcgcgagagtaactcgc	46002	-	see also 6547 line
26875	ZT86	NM_015871.2	251	tggcctgcgcgaggtaactcgc	46001	-	see also 6547 line
26876	BCAS2	NM_005872.1	85	gtgagtcgctgcgcgtatttga	46008	-	see also 11695 line
26877	BCAS2	NM_005872.1	90	tgcgctgcgcgtatttgaacag	46009	-	see also 11695 line
26878	BCAS2	NM_005872.1	270	tgcctgacaaacaaattgaattgc	46016	-	see also 11695 line
26879	C20orf14	NM_012469.2	1116	tacaaagtcctcggaaccttatc	46054	-	see also 11696 line
26880	C20orf14	NM_012469.2	2419	tactcagacacggcgcaatttgc	46063	-	see also 11696 line
26881	DDX23	NM_004818.1	344	accgtaaacgataccagcttatct	46074	-	see also 11697 line
26882	DDX23	NM_004818.1	281	aggagagagagagagataagaag	46072	-	see also 11697 line
26883	DXH38	NM_014003.2	158	gcctcgatcattcgattggaagg	46106	-	see also 11698 line
26884	DXH38	NM_014003.2	844	gccttcctatcgggattctgagc	46116	-	see also 11698 line
26885	DXH38	NM_014003.2	1101	ccgagtcggattggtacatgatg	46121	-	see also 11698 line
26886	DXH8	NM_004941.1	2691	agctcgtgtagcgcctatttct	46215	-	see also 11699 line
26887	DXH8	NM_004941.1	2101	cactcagtcgcgcgatactatgt	46197	-	see also 11699 line
26888	DIM1	NM_006701.2	279	agcatcgccgagaaggttaaaaa	46240	-	pre-mRNA splicing factor -
26889	DIM1	NM_006701.2	278	cagcatcgccgagaaggttaaaaa	46239	-	see also 26888 line
26890	DIM1	NM_006701.2	282	atcgccgagaaggttaaaaaatt	46241	-	see also 26888 line
26891	FUSIP1	NM_054016.1	575	caccgaatacgtatcttttcaag	46244	-	see also 11700 line
26892	FUSIP1	NM_054016.1	553	ttccgacaatgatagattcaaac	46242	-	see also 11700 line
26893	FUSIP1	NM_054016.1	554	ttccgacaatgatagattcaaca	46243	-	see also 11700 line
26894	HPRP8BP	NM_004814.1	529	gacgatggcacagtttaagcttg	46260	-	see also 11701 line
26895	HPRP8BP	NM_004814.1	152	aagcggagaccccaagatttcc	46251	-	see also 11701 line
26896	KHSRP	NM_003685.1	1146	tgtcgtgctgctggatcacgttca	46284	-	see also 11702 line
26897	KHSRP	NM_003685.1	1931	ccgcgcagtcggactacactaag	46297	-	see also 11702 line
26898	LSM1	NM_014462.1	253	ttcgagatggagggacactata	46301	-	see also 11703 line
26899	LSM1	NM_014462.1	345	ggcaaaaaaacgtgattatcc	46306	-	see also 11703 line
26900	LSM10	NM_032881.1	265	ggccacagcagcatagacaattgt	46313	-	see also 11704 line

図46 (続き)

26901	LSM10	NM_032881.1	264	ggccacgagcagcatagacaatg	-	see also 11704 line
26902	LSM11	NM_173491.1	1016	aggtattactacacataaat	-	see also 10071 line
26903	LSM11	NM_173491.1	968	gaggcagctccgttaagaaaaag	-	see also 10071 line
26904	LSM3	NM_014463.1	141	gagcttagagcagattacatgc	-	see also 5694 line
26905	LSM3	NM_014463.1	99	agcctagatgagcgaaattatgt	-	see also 5694 line
26906	LSM4	NM_012321.2	450	ggcgcaggcagggtgtgttgg	-	pre-mRNA splicing factor -
26907	LSM5	NM_012322.1	55	gacaaatgtataggatcaagaat	-	see also 11708 line
26908	LSM5	NM_012322.1	72	aagaattcacatcgtgatgaaga	-	see also 11708 line
26909	LSM6	NM_007080.1	131	gacgaccattgtgtanaaattc	-	see also 11709 line
26910	LSM6	NM_007080.1	99	aacccttagtgacttcttaagc	-	see also 11709 line
26911	LSM6	NM_007080.1	132	agacacagttgtgtanaaattaa	-	see also 11709 line
26912	LSM8	NM_016200.2	91	accgaactgttgcgttataca	-	see also 6718 line
26913	LSM8	NM_016200.2	90	aaccgaactgttgcgttatacc	-	see also 6718 line
26914	MGC14151	NM_032356.3	713	ggcgtgctcaacaagactatgc	-	see also 11712 line
26915	MGC14151	NM_032356.3	712	aggcgtgctcaacaagaactatg	-	see also 11712 line
26916	10	NM_005791.1	1906	accgcctgtaccagagattaaag	-	see also 11713 line
26917	10	NM_005791.1	1962	aagttagccccagtgagtgtagt	-	see also 11713 line
26918	PIIG	NM_004792.1	1164	ggaggaccaaggcgttatcgaact	-	see also 11714 line
26919	PIIG	NM_004792.1	446	gacgagagtttcgtgttaaaca	-	see also 11714 line
26920	PRPF18	NM_003675.2	660	tggcgtttgggtctaaagaattga	-	see also 11715 line
26921	PRPF18	NM_003675.2	994	gacgaatactcagcggaaataat	-	see also 11715 line
26922	PRPF3	NM_004698.1	212	cagcgcgatcatctgaaccctttt	-	see also 3220 line
26923	PRPF3	NM_004698.1	1034	agcgccagagacgcacctttaaa	-	see also 3220 line
26924	PRPF4	NM_004697.3	468	gtcgtactgatgcctgaataaa	-	see also 11717 line
26925	PRPF4	NM_004697.3	1237	caggacgttgtatcatgtcttta	-	see also 11717 line
26926	PRPF8	NM_006445.2	3099	gacatgaaccatacgaattcata	-	see also 4507 line
26927	PRPF8	NM_006445.2	3763	accgcgtgcgtcagattctcatg	-	see also 4507 line
26928	SCA2	NM_002973.1	3787	aacacagcagtcgccacagaatag	-	see also 2005 line
26929	SF3A1	NM_005877.3	937	ctcagatcgactggcgatgtttt	-	see also 11720 line
26930	SF3A1	NM_005877.3	825	aaccocggagaaagtttggatca	-	see also 11720 line
26931	SF3A1	NM_005877.3	939	cagatcgactcgcatgatttgt	-	see also 11720 line
26932	SF3A3	NM_006802.1	1018	agcggacatctcaactcatgaaat	-	see also 4782 line
26933	SF3A3	NM_006802.1	105	ctccgggaccagatcaattctga	-	see also 4782 line
26934	SF3B1	NM_012433.1	2489	accgacagttagtgtactact	-	see also 5325 line
26935	SF3B1	NM_012433.1	3501	tgcgctaaccacgcttactgaag	-	see also 5325 line
26936	SF3B1	NM_012433.1	3502	ggcgtaacaccogttacttgaaga	-	see also 5325 line
26937	SF3B4	NM_005850.3	1149	tccatgtccctccatggatgc	-	see also 11723 line
26938	SF3B4	NM_005850.3	557	accgtcttatcaocgctatttat	-	see also 11723 line
26939	SF3B4	NM_005850.3	558	cogtctatcacogtattcttatg	-	see also 11723 line
26940	SFRS1	NM_006924.3	306	tggtcgcgagactatgattacg	-	see also 4853 line
26941	SFRS10	NM_004593.1	813	atgatcgggactactatagcaga	-	see also 11725 line

図46 (続き)

783

26942	SFRS10	NM_004593.1	771	gcgcgtgggattactatgacaga	47008	-	see also 11725 line
26943	SFRS11	NM_004768.2	948	ggcgggtcacattcttaagtctagg	47031	-	see also 11726 line
26944	SFRS11	NM_004768.2	941	tggagacggcggctcacattctaa	47027	-	see also 11726 line
26945	SFRS11	NM_004768.2	945	gacggcggtcacattcttaagtct	47029	-	see also 11726 line
26946	SFRS2IP	NM_004719.1	3495	accgtggcagagggcacttacaga	47094	-	see also 11727 line
26947	SFRS2IP	NM_004719.1	2327	ctgacgaacacacctagatctac	47075	-	see also 11727 line
26948	SFRS4	NM_005626.3	1542	cgccctcccgatctagatctagg	47157	-	see also 11728 line
26949	SFRS4	NM_005626.3	1500	cccgatctcgggtccaaagtctaga	47155	-	see also 11728 line
26950	SFRS6	NM_006275.4	239	tctcgaagtagaacctcaaaaat	47158	-	pre-mRNA splicing factor -
26951	SFRS7	NM_006276.3	275	ctcccgaagtggagggtgaactat	47166	-	see also 11729 line
26952	SFRS7	NM_006276.3	308	gcctcggagatcacgttttgata	47168	-	see also 11729 line
26953	SFRS7	NM_006276.3	435	agcaggtttcttctgttgagtc	47175	-	see also 11729 line
26954	SFRS8	NM_004592.2	593	caattacagtagcagactattacg	47180	-	see also 11730 line
26955	SFRS8	NM_004592.2	2446	caagttcccaagtlaccattcg	47213	-	see also 11730 line
26956	SFRS9	NM_003769.2	674	aacttcctacatccgagttatc	47228	-	see also 11731 line
26957	SFRS9	NM_003769.2	748	gcgtgaactctccataccaaagc	47229	-	see also 11731 line
26958	SIP1	NM_003616.1	218	cccgaggacgcctcaggaaatcc	47235	-	see also 2429 line
26959	SLU7	NM_006425.3	1070	ttgcattgggaagcctatgacaag	47273	-	see also 11733 line
26960	SLU7	NM_006425.3	877	aggattcagagaagatatgcaca	47270	-	see also 11733 line
26961	SMNDC1	NM_005871.2	736	aacaacagagcctcttctaaaa	47292	-	see also 4086 line
26962	SMNDC1	NM_005871.2	828	aaccttggaattgctgtataaac	47295	-	see also 4086 line
26963	SNRP70	NM_003089.3	544	gtgtacggacctcaaaaagaat	47305	-	see also 11735 line
26964	SNRP70	NM_003089.3	547	tacggacctatcaaaaagaataca	47306	-	see also 11735 line
26965	SNRP70	NM_003089.3	487	ttcgtggcagagtggaattatga	47302	-	see also 11735 line
26966	SNRPB	NM_003091.3	386	gagaatctggtctcaatgacagt	47310	-	see also 11736 line
26967	SNRPB	NM_003091.3	410	gagggaacctctcccaagatac	47311	-	see also 11736 line
26968	SNRPB2	NM_003092.3	648	ccctgattacctcccaactata	47323	-	see also 11737 line
26969	SNRPB2	NM_003092.3	854	caccgtccatgctatgaagtc	47331	-	see also 11737 line
26970	SNRPD1	NM_006938.2	300	acgtgagttattggaggaataa	47338	-	see also 11738 line
26971	SNRPD1	NM_006938.2	291	cagctggaaacgtgagttatg	47336	-	see also 11738 line
26972	SNRPD2	NM_004597.4	457	gcgcgtggaagcccttcgatagg	47343	-	see also 11739 line
26973	SNRPD3	NM_004175.3	503	gacgaacacccgggtgaggtatct	47346	-	see also 2803 line
26974	SNRPF	NM_003095.1	123	tacctcctaaccacaaccttc	47351	-	see also 11741 line
26975	SNRPF	NM_003095.1	310	gtgtaataatgctctttatata	47353	-	see also 11741 line
26976	SNRPN	NM_003097.3	493	ctgcagcaattgctctatagaat	47355	-	see also 11742 line
26977	SNRPN	NM_003097.3	715	gggccaccccccaagactagg	47356	-	see also 11742 line
26978	SRRM1	NM_005839.1	1147	ctcggaataactgtaggttatct	47359	-	see also 4067 line
26979	SRRM1	NM_005839.1	1435	tgcagcagagagcccaatacaga	47369	-	see also 4067 line
26980	TRA2A	NM_013293.2	847	gtggcagacgctggagattcttac	47369	-	see also 5388 line
26981	TRA2A	NM_013293.2	851	cagacgctgagattcttactatg	47391	-	see also 5388 line
26982	U2AF1	NM_006758.1	369	gggaacgtatcgtcgaatttctg	47407	-	see also 11744 line
26983	U2AF1	NM_006758.1	426	ttgaataaccgtgtggttaattg	47409	-	see also 11744 line
26984	U2AF2	NM_007279.1	213	ggcgaacgacgacgaacaccttgg	47412	-	see also 11745 line

図 46 (続き)

784

26985	U2AF2	NM_007279.1	255	agcaggtgagctgattcgtcc	47414	-	see also 11745 line
26986	U5-116KD	NM_004247.1	184	gagatgagctgagagatcaga	47426	-	see also 2851 line
26987	U5-116KD	NM_004247.1	1790	tcgaccccttgaggtcgaatcacc	47463	-	see also 2851 line
26988	USP39	NM_006590.1	663	cacttaactgcgggtatgtgg	47488	-	see also 11747 line
26989	USP39	NM_006590.1	1339	accaagtgtccctcattatcatt	47509	-	see also 11747 line
26990	USP39	NM_006590.1	800	gtctccaggagatcattgttc	47495	-	see also 11747 line
26991	AUH	NM_001698.1	890	gggatggagctgatttagaac	47529	-	see also 11748 line
26992	AUH	NM_001698.1	487	aagagcagtgattaacgatttg	47518	-	see also 11748 line
26993	GPSF1	NM_013291.1	894	tgcctgaactgcgtgtgttacc	47535	-	see also 11749 line
26994	GPSF1	NM_013291.1	2842	tccgctacttcgagatttta	47543	-	see also 11749 line
26995	GPSF1	NM_013291.1	1885	atcgagggaacccgctacattgt	47541	-	see also 11749 line
26996	ELAVL1	NM_001419.2	224	aacgaatttgatcgaactacc	47554	-	see also 993 line
26997	ELAVL1	NM_001419.2	602	gtccagaggggtgctttatcc	47558	-	see also 993 line
26998	ELAVL2	NM_004432.1	967	atgtcagcggactccaaaaca	47569	-	see also 2984 line
26999	ELAVL3	NM_001420.2	850	agcgtttccggctggacaattg	47598	-	see also 11751 line
27000	ELAVL3	NM_001420.2	441	acccctaacgggctcgaattaca	47596	-	see also 11751 line
27001	ELAVL3	NM_001420.2	905	gccgactcgcctcgtatgtaga	47599	-	see also 11751 line
27002	ELAVL4	NM_021952.2	680	ctcgcataacggccctatcata	47608	-	see also 8211 line
27003	ELAVL4	NM_021952.2	824	tgtctacggaacccgtactgtga	47612	-	see also 8211 line
27004	ELAVL4	NM_021952.2	704	ctcacgaatcgtgtgatacag	47609	-	see also 8211 line
27005	PARN	NM_002582.1	1706	atcaattattccggaacaattgt	47683	-	see also 11753 line
27006	PARN	NM_002582.1	1584	agctatcggatcacaacctatgc	47681	-	see also 11753 line
27007	PABPC3	NM_030979.1	176	ctccaactacggctatgtgaact	47686	-	see also 11754 line
27008	PABPC3	NM_030979.1	1368	cgccacaggtgctcctagatgacc	47689	-	see also 11754 line
27009	PABPC4	NM_003819.2	913	tcggagttcgcggagatgatac	47691	-	see also 11755 line
27010	PABPC4	NM_003819.2	916	gggtctcgcggatattgatacc	47693	-	see also 11755 line
27011	TIA1	NM_022037.1	1110	ggccagtatagcctaatggttg	47742	-	see also 8243 line
27012	TIA1	NM_022037.1	629	tgtgaataaacccattcaacaga	47716	-	see also 8243 line
27013	PCF11	NM_015885.2	4412	tagacgttgatactacagtttaa	47863	-	see also 11757 line
27014	PCF11	NM_015885.2	4408	ctcattagacgttggtactacagt	47862	-	see also 11757 line
27015	FMR1	NM_002024.1	785	ttcggagctcgcactaaatttg	47899	-	see also 1297 line
27016	FMR1	NM_002024.1	545	ttgaacgtctaagatctgttaat	47887	-	see also 1297 line
27017	GRSF1	NM_002092.1	1272	atcggtccacgttccatcatagg	47974	-	see also 1356 line
27018	GRSF1	NM_002092.1	1278	ccacgttcattcatagattatt	47977	-	see also 1356 line
27019	RBM8A	NM_005105.2	345	ctcgacagcggacacaggatatt	47986	-	see also 11759 line
27020	RBM8A	NM_005105.2	366	ctgaagggtatctactagttaga	47988	-	see also 11759 line
27021	SLBP	NM_006527.2	562	tccctacagctgttatataaag	48004	-	see also 11760 line
27022	SLBP	NM_006527.2	563	gcctacagctgttatataaaga	48005	-	see also 11760 line
27023	SSB	NM_003142.2	979	atggttaacctacaattaaagaac	48037	-	see also 2124 line
27024	SSB	NM_003142.2	282	aaccgtctaacaacagacttaa	48021	-	see also 2124 line
27025	ADAR	NM_001111.2	1700	atcagcgggctgttagaatatgc	48072	-	see also 695 line
27026	ADARB1	NM_001112.1	931	ctgaacagctctcaatggtttt	48119	-	see also 11763 line
27027	ADARB1	NM_001112.1	724	tgaacgcgccttgggtgtcatg	48114	-	see also 11763 line
27028	ADARB1	NM_001112.1	2231	ctccgctattgaggtcattcaacg	48147	-	see also 11763 line

785

図46 (続き)

27029	ADARB2	NM 018702.1	1720	atcgatattgcggttaaaag	48161	-	see also 11764 line
27030	ADARB2	NM 018702.1	1711	ctcagagcgcgatgatctgtgc	48160	-	see also 11764 line
27031	ADARB2	NM 018702.1	1707	aggactcagagcgcgatgatgc	48159	-	see also 11764 line
27032	CARF	NM 017632.1	427	gggtgccgataccctcaaaaagt	48170	-	see also 11765 line
27033	CARF	NM 017632.1	699	agggtggccgcatcaaatcagaga	48183	-	see also 11765 line
27034	DHX30	NM 014966.2	426	gtctacgtgcacacaaatggacc	48187	-	see also 6154 line
27035	DHX30	NM 014966.2	705	ctgaatccagagagattcgacc	48193	-	see also 6154 line
27036	DIGER1	NM 030621.2	1095	gactgtcgtgcggtatttggtagt	48252	-	see also 8898 line
27037	DIGER1	NM 030621.2	1810	atcgatcctatgttcaatctaaa	48283	-	see also 8898 line
27038	DIGER1	NM 030621.2	3968	tggtacgacagacactatccaag	48369	-	see also 8898 line
27039	FLJ20399	NM 017803.3	1256	ccctaagatgtgcctactagagt	48447	-	see also 11768 line
27040	FLJ20399	NM 017803.3	250	atggagcggacattgtttactgt	48425	-	see also 11768 line
27041	JAZ	NM 012279.2	270	agggttgcgtgccttgccttatt	48454	-	see also 5254 line
27042	JAZ	NM 012279.2	888	ggcaacccattcagaagaactca	48470	-	see also 5254 line
27043	LOC16193	NM 139174.2	1212	ggccctcgtgagggcttcttcc	48475	-	see also 11769 line
27044	LOC16193	NM 139174.2	780	tgggggcactgcggaatagcaaga	48473	-	see also 11769 line
27045	LRRFP1	NM 004735.1	1504	aagcacagggcatagtttagaga	48488	-	see also 11770 line
27046	LRRFP1	NM 004735.1	1328	tcacaactgttggagtgacttaga	48484	-	see also 11770 line
27047	MRPL44	NM 022915.2	988	gaocggcgtgggaactattccaag	48521	-	see also 11771 line
27048	MRPL44	NM 022915.2	59	ggcgtccggcgtggaagatgc	48496	-	see also 11771 line
27049	PRKR	NM 002759.1	903	ggccgctaactcatatcttc	48543	-	see also 11772 line
27050	PRKR	NM 002759.1	1306	aagacttaactttaaaacgtgt	48558	-	see also 11772 line
27051	PRKRA	NM 003690.3	223	tacacgaatacggcctagaagacc	48580	-	see also 11773 line
27052	PRKRA	NM 003690.3	900	agcgaataggacaataatcaatg	48600	-	see also 11773 line
27053	RNASE3L	NM 013235.2	3116	aactccctcagagattaacaca	48687	-	see also 11774 line
27054	RNASE3L	NM 013235.2	2495	ctctcctcgtatgatacaactgg	48664	-	see also 11774 line
27055	SLC4A1AP	NM 018158.1	647	agccggactcgcgtgatttttag	48732	-	see also 11775 line
27056	SLC4A1AP	NM 018158.1	646	cagccgactcgcgtgatttttag	48731	-	see also 11775 line
27057	STAU	NM 004602.1	1596	ggcacgtaactgcgcattatagc	48774	-	see also 3130 line
27058	STAU	NM 004602.1	1027	aacgagtaagcctagatcaaaa	48768	-	see also 3130 line
27059	STAU2	NM 014393.1	1109	ctcagcgtcgagaatttggatg	48803	-	see also 5657 line
27060	STAU2	NM 014393.1	1107	gcctcgaactgcgagaatttga	48802	-	see also 5657 line
27061	STAU2	NM 014393.1	1033	agccgactcgcgtgagaattcaaca	48798	-	see also 5657 line
27062	STRBP	NM 018387.2	1752	ttcagctagcggtaggatttg	48853	-	see also 7432 line
27063	STRBP	NM 018387.2	2088	gggcgaagtcgaataaagaaga	48865	-	see also 7432 line
27064	TARBP2	NM 004178.3	913	cagctcgaactcgtgatttga	48887	-	see also 11779 line
27065	TARBP2	NM 004178.3	97	caggagtagggagcagaattagg	48877	-	see also 11779 line
27066	Tenr	NM 139243.1	345	tacgaagtacgggtattttc	48893	-	see also 9680 line
27067	Tenr	NM 139243.1	849	ttctaatcgttcagaataccga	48907	-	see also 9680 line
27068	TLR3	NM 003265.2	925	atctcactatgctcgatttttc	48966	-	see also 11781 line
27069	TLR3	NM 003265.2	1858	ttgaactaagatcattcgattta	48999	-	see also 11781 line
27070	HNRP1	NM 005520.1	1069	gtcgaggttcgaactcagaaga	49038	-	see also 3850 line
27071	AARS	NM 001605.1	139	tccggcagcgattatagatttc	49043	-	see also 11783 line
27072	AARS	NM 001605.1	1503	ctggacatttacgctatcagaaga	49064	-	see also 11783 line

786

図46 (続き)

27073	CARS	NM_001751.3	499	cacgagatccgataaaagcaga	49101	-	see also 11784 line
27074	CARS	NM_001751.3	494	gagacacggatcccgataaaaa	49100	-	see also 11784 line
27075	CARS	NM_001751.3	784	aacccgggtatgtgagtatgtgc	49103	-	see also 11784 line
27076	FARS1	NM_006567.1	714	ggcggtagaaggtgtgagatttg	49136	-	see also 11785 line
27077	FARS1	NM_006567.1	675	ttctgcctctgcgcataacaag	49134	-	see also 11785 line
27078	FARS1	NM_006567.1	1159	gacttagtcgcgaacaattggagg	49156	-	see also 11785 line
27079	MARS	NM_004990.2	209	tagtgcattctgcgcatatttt	49157	-	see also 11786 line
27080	MARS	NM_004990.2	446	atctotagccagaattttttgt	49161	-	see also 11786 line
27081	MARS	NM_004990.2	211	gtgaattctgcgcatattttt	49158	-	see also 11786 line
27082	SOYE1	NM_004757.1	506	ttccgtctgcatctcgaatttg	49210	-	see also 11787 line
27083	SOYE1	NM_004757.1	306	tgaacgctaattctatgtttct	49203	-	see also 11787 line
27084	SLA/LP	NM_016955.1	567	gggggctcgtggttggtagaatag	49234	-	see also 6981 line
27085	SLA/LP	NM_016955.1	568	ggggctcgtggttggtagaataga	49235	-	see also 6981 line
27086	YARS	NM_003680.2	1384	ttccctgcacttggctattcaaaa	49268	-	see also 11789 line
27087	YARS	NM_003680.2	1400	ttcaaaacgggtccatctgatga	49269	-	see also 11789 line
						structural constituent of ribosome	-
27088	RPL11	NM_000975.2	195	tcctttggcatccggagaatga	49287	-	see also 27088 line
27089	RPL11	NM_000975.2	151	caggcgacgacccctgtttttcc	49286	-	see also 27088 line
27090	RPL11	NM_000975.2	23	ggcgagagatcaaggtgaagg	49285	-	see also 27088 line
27091	RPL5	NM_000909.2	220	ttctgtgcaaacacagagatato	49288	-	see also 11790 line
27092	RPL5	NM_000909.2	225	gtgcaaacacagagatattttg	49290	-	see also 11790 line
27093	EIF4E13	NM_004846.1	608	cacacttcggcgagtggttaacc	49309	-	see also 3358 line
27094	EIF4G3	NM_003760.2	3094	ggcaagctatggaccagttacttta	49372	-	see also 2573 line
27095	EIF4G3	NM_003760.2	4794	cactacaagcatcagatagtaaaa	49424	-	see also 11794 line
27096	NCBP2	NM_007362.2	312	aagccatcaggtacataaatgg	49431	-	see also 11794 line
27097	NCBP2	NM_007362.2	419	ggggcaggttgggagtagatgc	49434	-	see also 11794 line
27098	RNU11	NM_005701.2	153	ccgcctatcccagttacaagtc	49435	-	see also 11795 line
27099	RNU11	NM_005701.2	684	ttcggattctactggagtcattca	49448	-	see also 11795 line
27100	RRP4	NM_014285.4	249	atcgtagtggagaaatcacaga	49457	-	see also 5592 line
27101	RRP4	NM_014285.4	101	cactacggacacaggatttcagc	49454	-	see also 5592 line
27102	SRP19	NM_003135.1	177	aaggcgaatcccataagtaagg	49477	-	see also 2115 line
27103	SRP19	NM_003135.1	375	cccatcaagtaagtcagtaattg	49491	-	see also 2115 line
27104	PTBP1	NM_002819.3	1261	cgcgtgaagatcctgttcaataa	49503	-	see also 11798 line
27105	PTBP1	NM_002819.3	1260	ggcgtgaagatcctgttcaata	49502	-	see also 11798 line
27106	A2BP1	NM_018723.2	1154	cacggtcccgagcacacattaa	49508	-	see also 7576 line
27107	ACF	NM_014576.2	1500	ctcgctcccagatattagaaga	49571	-	see also 11800 line
27108	ACF	NM_014576.2	259	ttcagcgcacaggtatagatttg	49545	-	see also 11800 line
27109	ACO1	NM_002197.1	979	ctgaaccgagctacattgttaac	49599	-	see also 1400 line
27110	ACO1	NM_002197.1	203	tggcggttaccattttcgatca	49579	-	see also 1400 line
27111	AD023	NM_020679.2	858	ggcagctgccacaagatttact	49663	-	see also 11802 line
27112	AD023	NM_020679.2	856	agccagctgcccacaagattata	49661	-	see also 11802 line
27113	ADAT1	NM_012091.2	479	aacttagcagagacctoattttt	49671	-	see also 11803 line
27114	ADAT1	NM_012091.2	1587	accgattatccaccagttcaagt	49688	-	see also 11803 line

787

図46 (続き)

27115	AKAP1	NM_003488.2	2012	caactagtcggtcggttaattgg	49706	-	see also 11804 line
27116	AKAP1	NM_003488.2	2541	acttgactacggcggtataaag	49711	-	see also 11804 line
27117	ALK	NM_004304.3	4736	atctacagcgagcgactatag	49749	-	see also 2882 line
27118	ALK	NM_004304.3	4741	caaggcgagctactatagaagg	49750	-	see also 2882 line
27119	POBEC1	NM_001644.2	374	atctacgtagctcggttttttg	49773	-	see also 11806 line
27120	POBEC1	NM_001644.2	315	gggaatgctccagcgctattaga	49771	-	see also 11806 line
27121	POBEC2	NM_006789.1	442	agcgtgctgacgcgcatatca	49783	-	-
27122	POBEC2	NM_006789.1	391	ccagcgctcggtacaaatgtca	49782	-	see also 27121 line
27123	BAT1	NM_004640.3	857	atctagccctggctcgaaataa	49786	-	see also 3154 line
27124	BAT1	NM_004640.3	1385	gacatogagcggtgaaacattgc	49801	-	see also 3154 line
27125	BRUNOL4	NM_020180.1	1209	tctcagcgccctccaatgctcc	49812	-	see also 7788 line
27126	BRUNOL4	NM_020180.1	1178	ctgctgcctatggtcagataagc	49811	-	see also 7788 line
27127	BRUNOL5	NM_021938.2	1296	tctacccttgggcaatataatt	49814	-	-
27128	BRUNOL5	NM_021938.2	1299	tacccttgggcaatataattcc	49815	-	see also 27127 line
27129	BRUNOL5	NM_021938.2	320	ggcagggttcgcccataaagc	49813	-	see also 27127 line
27130	C14orf21	NM_174913.1	479	accgatgctggggtccatgtatta	49820	-	see also 11809 line
27131	C14orf21	NM_174913.1	1865	ctcgaaatgtggcctgaactacc	49837	-	see also 11809 line
27132	C15orf12	NM_018285.1	549	cggcacagtctagagtaacaatga	49839	-	see also 11810 line
27133	C1orf25	NM_030934.3	1480	ggcgtaactacggatgttaacatt	49883	-	see also 11811 line
27134	C1orf25	NM_030934.3	1478	cgcgctcactacggatgttaaca	49882	-	see also 11811 line
27135	CGI-37	NM_016101.2	276	caaaagacccgggtgtactatgt	49906	-	see also 11812 line
27136	CGI-37	NM_016101.2	424	ttgcaccttatgcacaagtataaa	49909	-	see also 11812 line
27137	CGI-79	NM_016024.1	850	ctgaaggcggtgatttagaagt	49918	-	see also 11813 line
27138	CGI-79	NM_016024.1	853	aaggcggtgatttagaagttaga	49919	-	see also 11813 line
27139	CHERP	NM_006387.4	196	ttcttttcggagcggaattctac	49930	-	see also 11814 line
27140	CHERP	NM_006387.4	206	agcgaattctcacagttactaca	49934	-	see also 11814 line
27141	CIRBP	NM_001280.1	246	aacattgcacgcgtaagatgc	49945	-	see also 11815 line
27142	CIRBP	NM_001280.1	551	cggtctcacagacagcttacg	49947	-	see also 11815 line
27143	CIZ1	NM_012127.1	2667	ggcgctcaaccgccctcaaaacc	49971	-	see also 11816 line
27144	CIZ1	NM_012127.1	566	accaccccaatgaagaagattc	49983	-	see also 11816 line
27145	GPSF2	NM_017437.1	1197	acctagccctaaagtgttacttg	49989	-	see also 7011 line
27146	GPSF2	NM_017437.1	2419	cttaccgggaggaggtccaagc	50027	-	see also 7011 line
27147	GPSF3	NM_016207.2	113	atgtattctcaggttcaag	50034	-	see also 11818 line
27148	GPSF3	NM_016207.2	1522	ctcttgcaactgtccaattat	50088	-	see also 11818 line
27149	GPSF5	NM_007006.1	265	caocggctaccctatgttact	50107	-	see also 11819 line
27150	GPSF5	NM_007006.1	356	aaggactaaacgcttaagtaca	50110	-	see also 11819 line
27151	GPSF6	NM_007007.1	1661	gacggagagcgcgaaatcgtca	50146	-	see also 11820 line
27152	GPSF6	NM_007007.1	67	cgcgagatgcgaggaagttca	50119	-	see also 11820 line
27153	CSL4	NM_016046.2	566	cccgagtaaacccgaattcttg	50163	-	see also 6638 line
27154	CSL4	NM_016046.2	326	aagatgctcgagcaactgaataa	50158	-	see also 6638 line
27155	GSTF1	NM_001324.1	1357	gtcgtgggagcaacaataatg	50206	-	see also 11821 line
27156	GSTF1	NM_001324.1	562	tgtgtatgctcgatataaagatc	50178	-	see also 11821 line
27157	GSTF2	NM_001325.1	132	ctgaggttgacacctgtttagt	50208	-	see also 874 line
27158	GSTF3	NM_001326.1	2187	aggcccaacagaggttcagatga	50302	-	see also 876 line

図 46 (続き)

788

27159	GSTF3	NM_001326.1	658	ggttaatcagatgaacatt	50248	-	see also 876 line
27160	CUGBP1	NM_006580.2	1230	tactcggatcagcaatattc	50326	-	see also 4596 line
27161	CUGBP1	NM_006580.2	801	aacctgtgtctaaactatct	50319	-	see also 4596 line
27162	CUGBP2	NM_006561.1	625	ttcaactatcgtgggaatttg	50348	-	see also 4600 line
27163	CUGBP2	NM_006561.1	54	tgtctgttcctgacagaattaac	50335	-	see also 4600 line
27164	DAZAP1	NM_018959.2	408	caagctagatggcgaacatcg	50365	-	see also 7608 line
27165	DAZAP1	NM_018959.2	606	caaggaggtagctgactatcg	50372	-	see also 7608 line
27166	DAZAP1	NM_018959.2	293	aagtctgtagattgtgtatcatg	50363	-	see also 7608 line
27167	DAZL	NM_001351.2	366	tgaacacacgaagctatttt	50381	-	see also 11827 line
27168	DAZL	NM_001351.2	756	caaacacacgatgaatcrtataa	50386	-	see also 11827 line
27169	DDX1	NM_004939.1	1562	ttctaaatgggtgacttaaaa	50439	-	see also 3438 line
27170	DDX1	NM_004939.1	1563	tctacatgggtgacttaaaag	50440	-	see also 3438 line
27171	DDX10	NM_004398.2	1643	gagccaagccgataaagtaattg	50517	-	see also 11829 line
27172	DDX10	NM_004398.2	1579	cgtggaccacgcgtagtaaac	50512	-	see also 11829 line
27173	DDX17	NM_006386.3	1875	agctatcgggacgtagtaaac	50576	-	see also 11830 line
27174	DDX17	NM_006386.3	1768	ctcgttaaccggaccacttctca	50574	-	see also 11830 line
27175	DDX18	NM_006773.3	196	cigaccctataggaaactcaaaa	50595	-	see also 11831 line
27176	DDX18	NM_006773.3	924	gactcaccacgtgcatacctatg	50612	-	see also 11831 line
27177	DDX19	NM_007242.3	488	gagcccccacagaaacttaattgc	50658	-	see also 11832 line
27178	DDX19	NM_007242.3	553	ggccatgcttagccaaagtagaac	50659	-	see also 11832 line
27179	DDX21	NM_004728.1	2382	agcggggttcagtaaaagcattt	50709	-	see also 3240 line
27180	DDX21	NM_004728.1	1549	tctgcacgtgggttagacatcc	50682	-	see also 3240 line
27181	DDX21	NM_004728.1	1938	agcgtcctctgatacaactcaaat	50694	-	see also 3240 line
27182	DDX24	NM_020414.3	2284	atccgttagctgcacagattga	50751	-	see also 7867 line
27183	DDX24	NM_020414.3	2091	ccacgtactcctggagatttatg	50746	-	see also 7867 line
27184	DDX25	NM_013264.2	782	ttctcagatcatgattctgat	50768	-	see also 5382 line
27185	DDX25	NM_013264.2	894	ctgaacctaatgttatcaagtta	50773	-	see also 5382 line
27186	DDX41	NM_016222.2	311	aggctgaagcgcgaagagctct	50789	-	see also 6727 line
27187	DDX41	NM_016222.2	915	tgggggcatgcccgtgaagagc	50798	-	see also 6727 line
27188	DDX43	NM_018665.1	1276	tcccgaagattgaatgactctgc	50838	-	see also 11837 line
27189	DDX43	NM_018665.1	657	gagatcgccattgatatgagg	50821	-	see also 11837 line
27190	DDX5	NM_004396.2	1967	agctgcacctatgattggttatc	50923	-	see also 11838 line
27191	DDX5	NM_004396.2	1644	gacctcgggacagatcactctgc	50906	-	see also 11838 line
27192	DDX56	NM_019082.1	709	cccggttacccttaagtacagg	50933	-	see also 11839 line
27193	DDX56	NM_019082.1	707	aaccgggttaaccttaagttaac	50932	-	see also 11839 line
27194	DDX56	NM_019082.1	1387	ggccattcgggacagacagattga	50943	-	see also 11839 line
27195	DDX6	NM_004397.3	1261	accagttactacgcatatgaac	50968	-	see also 11840 line
27196	DDX6	NM_004397.3	1264	cagtactacgcatatgaactga	50970	-	see also 11840 line
27197	DHX34	NM_014681.3	1189	agcgcattctccacaacagatttc	50998	-	see also 11841 line
27198	DHX34	NM_014681.3	3350	agggctagaagttccagacaatgt	51009	-	see also 11841 line
27199	DIS3	NM_014953.2	1174	atccctcgaattccatagaaac	51045	-	see also 11842 line
27200	DIS3	NM_014953.2	357	acgcattccgagatgactaata	51018	-	see also 11842 line
27201	DKC1	NM_001363.2	95	ggcggatgcggaagtaattattt	51106	-	see also 11843 line
27202	DKC1	NM_001363.2	974	atctcctaaccggctgggttata	51135	-	see also 11843 line

図46 (続き)

27203	DKC1	NM_001363.2	1157	ctctactctgaccatggtatag	51142	-	see also 11843 line
27204	DSOR1L2	NM_013441.2	613	agcaagagcggcgaataactcc	51152	-	see also 11844 line
27205	DSOR1L2	NM_013441.2	610	ggcagcaagagcggcgaataaagac	51151	-	see also 11844 line
27206	DUSP11	NM_003584.1	158	ggcggagacgcggacttttcagg	51158	-	see also 11845 line
27207	DUSP11	NM_003584.1	217	cccgaaaggggaaagactatc	51159	-	see also 11845 line
27208	DUSP11	NM_003584.1	403	aacatactcaacgcgtattata	51166	-	see also 11845 line
27209	EIF2S1	NM_004094.3	246	cagaaggcgtatccgtttctatca	51188	-	see also 11846 line
27210	EIF2S1	NM_004094.3	780	agctctctctcgttgtaataa	51207	-	see also 11846 line
27211	EIF2S2	NM_003908.2	278	agccaactcagagacaaggatttg	51215	-	see also 2667 line
27212	EIF3S4	NM_003755.1	181	gaggatcatcaacgggaaacataaa	51219	-	see also 11847 line
27213	EIF3S4	NM_003755.1	509	ccggctccctcacaagataacg	51225	-	see also 11847 line
27214	EIF3S9	NM_003751.2	1383	ctggatatacgttagcatctatga	51248	-	see also 11848 line
27215	EIF3S9	NM_003751.2	991	gtggagacccgacttccatattc	51236	-	see also 11848 line
27216	EIF4G1	NM_004953.2	2693	gtcatccgcgcacgcgtttatgc	51291	-	see also 11850 line
27217	EIF4G1	NM_004953.2	4022	tgcaatcgtcgtgaacacagaagg	51310	-	see also 11850 line
27218	EIF4G1	NM_004953.2	3118	ctcgccagctactagtaatttg	51299	-	see also 11850 line
27219	EIF4G2	NM_001418.1	1439	tgccaaggttagcgggaattgtact	51366	-	see also 979 line
27220	EIF4G2	NM_001418.1	1731	gacctgctcgtcgttctctaata	51380	-	see also 979 line
27221	ERAL1	NM_005702.1	191	gacctgctcgtcgtcgttaataag	51423	-	see also 11851 line
27222	ERAL1	NM_005702.1	48	ggcttgctcaatcgggttaaga	51422	-	see also 11851 line
27223	ETF1	NM_004730.1	925	ttcaaccaagctattgattatc	51467	-	see also 3242 line
27224	EWSR1	NM_005243.1	631	ctctacacagccgactagttatg	51496	-	see also 3682 line
27225	EWSR1	NM_005243.1	499	atctagcacagggggttaacaac	51491	-	see also 3682 line
27226	FBL	NM_001436.2	740	cgaatggtgagatgattgatttg	51514	-	see also 11853 line
27227	FBL	NM_001436.2	434	ttcggagagagatgacaaaattg	51512	-	see also 11853 line
27228	FLJ10379	NM_018079.3	1082	ctcagttcgtctatcgtactatag	51539	-	see also 11854 line
27229	FLJ10379	NM_018079.3	2992	ccccgatctaggattactcttg	51611	-	see also 11854 line
27230	FLJ10379	NM_018079.3	2354	caggattatatacgaacggttg	51592	-	see also 11854 line
27231	FLJ10581	NM_018146.2	887	ttccggatgcccatatcaataa	51632	-	see also 7281 line
27232	FLJ10581	NM_018146.2	373	gtctgggttcgctcgcgataaag	51613	-	see also 7281 line
27233	FLJ13842	NM_024645.1	408	gtggtggccgattccattatca	51674	-	see also 8677 line
27234	FLJ13842	NM_024645.1	546	gtcgcatctccctatcaagaag	51680	-	see also 8677 line
27235	FLJ20244	NM_017722.2	173	ctctagagccgggttttcgagt	51692	-	see also 11856 line
27236	FLJ20244	NM_017722.2	1436	cccgagcgtgcctctgtactaca	51701	-	see also 11856 line
27237	FLJ22419	NM_024697.1	876	aacgacgacaactgttgaaatcc	51711	-	see also 11857 line
27238	FLJ22419	NM_024697.1	1401	ggctccagaaattctacaaacc	51723	-	see also 11857 line
27239	FLJ22419	NM_024697.1	1395	gccattggctccacgaattctac	51722	-	see also 11857 line
27240	FLJ25270	NM_152520.2	490	aagcgttattaacatacatatt	51724	-	see also 11858 line
27241	FLJ25270	NM_152520.2	634	aagcactagcagcaacgaaat	51726	-	see also 11858 line
27242	FLJ31121	NM_144723.1	140	gacctgaagcgagagctttac	51747	-	see also 9744 line
27243	FXR1	NM_005087.1	582	aagtattcgtacgaattgatgc	51783	-	see also 3550 line
27244	FXR1	NM_005087.1	1141	cagattgggttctagttctatag	51806	-	see also 3550 line
27245	FXR2	NM_004860.2	1482	ctccatgctcactgaacctatgg	51849	-	see also 3377 line
27246	FXR2	NM_004860.2	1081	ccggaagctacctgaatttct	51843	-	see also 3377 line

790

図46 (続き)

27247	G3BP	NM_005754.2	975	tgagataccacctoatgttgta	51866	-	see also 11862 line
27248	G3BP	NM_005754.2	486	gaggagattcatcaaacgtttg	51862	-	see also 11862 line
27249	G3BP2	NM_012297.2	1420	cgggtgtccacgttggaattgt	51896	-	see also 5264 line
27250	G3BP2	NM_012297.2	1124	ttgtaactgtccacatgatatt	51888	-	see also 5264 line
27251	HDLBP	NM_005336.1	860	ttcatcgtggccgtataatag	51907	-	see also 3717 line
27252	HDLBP	NM_005336.1	863	atcgtggccgtataatagact	51908	-	see also 3717 line
27253	HNRPA0	NM_006805.2	804	tcccaagagagatatctactcc	51993	-	see also 11865 line
27254	HNRPA0	NM_006805.2	556	cggtccacagcagaggttaaga	51985	-	see also 11865 line
27255	HNRPA2B	NM_002137.2	1063	ttctaactacgttccaatgaaga	52009	-	see also 11866 line
27256	HNRPA2B	NM_002137.2	638	atcgtattcagagaaataccatcac	51999	-	see also 11866 line
27257	HNRPA2B	NM_004499.2	501	gaggtcgttgaactgtacaataaa	52016	-	see also 3050 line
27258	HNRPA2B	NM_004499.2	802	gacgaggtttgtgtttatcaccc	52027	-	see also 3050 line
27259	HNRPF	NM_004966.2	1220	agcgaacccagagacgacattaca	52048	-	see also 11868 line
27260	HNRPF	NM_004966.2	552	agcatgggacacccggtacattga	52043	-	see also 11868 line
27261	HNRPH2	NM_019597.2	141	ctgctcagcccgatgaagtatgc	52053	-	see also 11869 line
27262	HNRPH2	NM_019597.2	191	atggcacatcaggtattctttc	52054	-	see also 11869 line
27263	HNRPH3	NM_012207.1	444	agcgaacccgagacacatgataga	52066	-	see also 11870 line
27264	HNRPL	NM_012207.1	713	atgagaggtgttcctttcgtgc	52069	-	see also 11870 line
27265	HNRPL	NM_001533.1	547	ttcatcacccaggtattcttt	52091	-	see also 11871 line
27266	HNRPL	NM_001533.1	401	tacgcagccgacacacaaataata	52081	-	see also 11871 line
27267	HNRPL	NM_001533.1	382	ggcttgaacccagtgtaactacg	52080	-	see also 11871 line
27268	HNRPM	NM_005968.2	2395	ttgacgttgaattgatagaac	52136	-	see also 4169 line
27269	HNRPM	NM_005968.2	2387	ccgagagattgacgttcgaattg	52134	-	see also 4169 line
27270	HNRPR	NM_005826.2	686	atccacttcoggtcagaataga	52156	-	see also 4062 line
27271	ILF2	NM_004515.2	817	gaactactagccattatgctgt	52199	-	see also 11874 line
27272	ILF2	NM_004515.2	619	gtgccaccaatcttgaaact	52191	-	see also 11874 line
27273	ILF2	NM_004515.2	998	agcagagacatggtctgtatata	52203	-	see also 11874 line
27274	IMP-3	NM_006547.2	1028	tgcggttgaagtctattctgg	52235	-	see also 4588 line
27275	IMP-3	NM_006547.2	1025	ctctgcgcttgtaagtctattc	52234	-	see also 4588 line
27276	KHDRBS3	NM_006558.1	1172	ccccgacacacagagactatgg	52266	-	see also 4595 line
27277	KHDRBS3	NM_006558.1	1171	accccgacacacagagactatg	52265	-	see also 4595 line
27278	KIAA0116	NM_015004.2	329	ccctctatcggatatttaacaat	52279	-	see also 11877 line
27279	KIAA0116	NM_015004.2	325	aacacctctatcgatatttaa	52277	-	see also 11877 line
27280	KIAA0117	NM_015014.1	699	gggaacgctatccaaaagtgg	52298	-	see also 11878 line
27281	KIAA0117	NM_015014.1	693	agcagagggagacgctatccaaaa	52295	-	see also 11878 line
27282	KIAA0427	NM_014772.1	1333	ctgcggcgaaggctaaaggaaaa	52305	-	see also 11879 line
27283	KIAA0427	NM_014772.1	841	ctgttcgcagaggagagaaatga	52300	-	see also 11879 line
27284	KIAA0682	NM_014852.1	82	gtcggactgtatgtgaagaatc	52312	-	see also 6053 line
27285	KIAA0682	NM_014852.1	1552	gggatcgtcgtctacagaaga	52323	-	see also 6053 line
27286	KIS	NM_144624.1	631	acctcaaacacgtaacatattg	52343	-	see also 9717 line
27287	KIS	NM_144624.1	982	atcaactaagaacaccttatcaaa	52351	-	see also 9717 line
27288	LGTN	NM_006893.1	1351	aggtccgaacgatcgtcattaac	52386	-	see also 11881 line
27289	LGTN	NM_006893.1	1354	tcgcgaacgatcgtcattaac	52387	-	see also 11881 line
27290	LOC91801	NM_138775.1	509	accaggactcatggtatagaag	52406	-	see also 11882 line

791

27291	LOC91801	NM_138775.1	289	tgctccgggttttagaagaatgt	52404	-	see also 11882 line
27292	MATR3	NM_018834.3	1682	aaccacacacgcgttagtatttg	52450	-	see also 7583 line
27293	MBNL1	NM_021038.1	1497	caggccagacacggaatgtaaa	52456	-	see also 8071 line
27294	MBNL1	NM_021038.1	2495	ctgactatgcacacaagtattgtac	52479	-	see also 8071 line
27295	MCTS1	NM_014060.1	414	gtccgatgccatgaacatataga	52488	-	see also 5475 line
27296	MCTS1	NM_014060.1	367	aaccattgcttaatacaaatcatg	52485	-	see also 5475 line
27297	MEITL3	NM_019852.2	1664	tggcaactgcgaagattgagttat	52529	-	see also 7738 line
27298	MGC42174	NM_152383.2	1471	aagcgtctacttggttcaaaagg	52558	-	see also 9842 line
27299	MGC4562	NM_133375.2	1705	aacttaagcgtgtgttgatgat	52614	-	see also 11887 line
27300	MGC4562	NM_133375.2	2512	gccacaggaagcgtgtcatatc	52634	-	see also 11887 line
27301	MOV10L1	NM_018935.1	3348	gaccgtacggttcaaatgaagata	52728	-	see also 11888 line
27302	MOV10L1	NM_018935.1	3346	tggaccgtacggttcaaatgaaga	52727	-	see also 11888 line
27303	MRPL1	NM_020236.2	906	tggcaactgtcaagcaggtatta	52743	-	see also 11889 line
27304	MRPL1	NM_020236.2	872	tagcaacattggatgtgtcaagt	52742	-	see also 11889 line
27305	MRPL12	NM_002949.2	533	ggcgaagcccggtggacaaagtga	52750	-	see also 11890 line
27306	MRPL12	NM_002949.2	494	agcgaagaagacggcacatttca	52749	-	see also 11890 line
27307	MRPL23	NM_021134.2	202	aagggtgacctcagcgaattacc	52753	-	see also 11891 line
27308	MRPL23	NM_021134.2	267	gggtgcagcatggtctctacaag	52754	-	see also 11891 line
27309	MRPL3	NM_007208.2	848	tgctacatcgtgtcaaacgaaaa	52773	-	see also 11892 line
27310	MRPL3	NM_007208.2	628	tctgaagctcatccattattg	52765	-	see also 11892 line
27311	MRPL3	NM_007208.2	1086	aaggatctcgtaaaaaatctacc	52780	-	see also 11892 line
27312	MRPS28	NM_014018.2	441	gtccggttgccggtctatagatct	52794	-	see also 11893 line
27313	MRPS28	NM_014018.2	447	tgcggctatagattcttgaact	52797	-	see also 11893 line
27314	MSI1	NM_002442.2	740	acctacgcagccggagttatac	52814	-	see also 1576 line
27315	NHP2L1	NM_005008.1	165	acctcgttcacgagtcagttaac	52817	-	see also 11894 line
27316	NHP2L1	NM_005008.1	171	ttcagcagtcagttaactataag	52818	-	see also 11894 line
27317	NOL4	NM_003787.1	1665	ggcgtgtgcagaaaaacgtatac	52835	-	see also 11895 line
27318	NOL4	NM_003787.1	1669	gtgccagaaaaacgtatcgtact	52836	-	see also 11895 line
27319	NOL4	NM_003787.1	1673	cagaaaaacgtatcgtacttaacc	52837	-	see also 11895 line
27320	NOL5A	NM_006392.2	1187	tgccttcacgaatcgattgcttct	52883	-	see also 4485 line
27321	NOL5A	NM_006392.2	622	ggagtgctacgggtatcatcttt	52870	-	see also 4485 line
27322	NOPD1	NM_182543.1	1308	ggcgttaacttgatagtgtgg	52917	-	see also 11897 line
27323	NOPD1	NM_182543.1	1047	cagtgtactgcccgcttacttat	52904	-	see also 11897 line
27324	NOVA1	NM_002515.1	481	ccccagaccacggttaatccaga	52933	-	see also 11898 line
27325	NOVA1	NM_002515.1	320	agctgttaagttccaaagatttt	52932	-	see also 11898 line
27326	NOVA2	NM_002516.1	1443	cagccaagccgctcaataacctca	52960	-	see also 11898 line
27327	NOVA2	NM_002516.1	1440	ggccacgcgaagccgcctcaatacc	52959	-	see also 11898 line
27328	NOVA2	NM_002516.1	345	tgcctgtaagttccaaagatttt	52958	-	see also 27326 line
27329	NUFIP1	NM_012345.1	1313	atcaacaactatcaaacggtattc	52978	-	see also 27326 line
27330	NUFIP1	NM_012345.1	1084	tgtctactaatgtagtgatgg	52973	-	see also 11899 line
27331	NUFIP1	NM_012345.1	1318	aactataaacgcttattcgaacc	52979	-	see also 11899 line
27332	NUF1	NM_017809.2	1078	gtgaagcagaataccgtattacc	53030	-	see also 11900 line
27333	NXF2	NM_017809.2	1081	agaagcaaatccgtattaccag	53031	-	see also 11900 line
27334	NXF3	NM_022052.1	263	aagatcacactccctactatttt	53035	-	see also 11901 line

図46 (続き)

27335	NXF3	NM_022052.1	489	cctctgtccagtgaggttca	53041	-	see also 11901 line
27336	OAS1	NM_002534.1	862	acggctctggaattagtcataaa	53066	-	see also 11902 line
27337	OAS1	NM_002534.1	863	cggttctggaattagtcataaac	53067	-	see also 11902 line
27338	OAS2	NM_002535.1	1248	atctcgtcgtgttcataaactca	53088	-	see also 11903 line
27339	OAS2	NM_002535.1	1250	ctcgtcgtgttcataaactact	53089	-	see also 11903 line
27340	OAS2	NM_002535.1	1761	gtggagtcgaggtttgacaact	53097	-	see also 11903 line
27341	OAS3	NM_006187.1	2349	aggtgaacaagcccggtgatacc	53119	-	see also 11904 line
27342	OAS3	NM_006187.1	3048	accgcgaagctctgtatctactgg	53126	-	see also 11904 line
27343	OIP2	NM_181503.1	131	aactgtcaactcgggtcaatta	53128	-	see also 10233 line
27344	OIP2	NM_181503.1	135	gtcaacatcgggtcaaatagtag	53130	-	see also 10233 line
27345	OIP2	NM_181503.1	450	ctcgactacatggaacatttt	53136	-	see also 10233 line
27346	P14	NM_016047.2	437	cactatcgggattcaattgttg	53159	-	see also 6639 line
27347	P14	NM_016047.2	438	acctatcgggattcaattgttg	53160	-	see also 6639 line
27348	PABPC5	NM_080832.1	1336	ccccaggggtgcctctctatt	53183	-	see also 9528 line
27349	PABPC5	NM_080832.1	1335	ccccaggggtgcctctctatt	53182	-	see also 9528 line
27350	PABPC5	NM_080832.1	951	aacaaccgcaggtgtatgttg	53172	-	see also 9528 line
27351	PABPN1	NM_004643.1	1870	ttcagtaaacggtgttaccatc	53189	-	see also 3163 line
27352	PABPN1	NM_004643.1	1915	tcccaagggttgcgtatag	53191	-	see also 3163 line
27353	PAPOLA	NM_032632.2	318	tgctgaattacacagaaactaat	53202	-	see also 9264 line
27354	PAPOLA	NM_032632.2	311	gactgactgcgtacttacacaga	53200	-	see also 9264 line
27355	PAPOLB	NM_020144.3	1499	gtgattgggttagggctaaaaa	53246	-	see also 11909 line
27356	PAPOLB	NM_020144.3	1230	caacagagatttgcctaagtag	53245	-	see also 11909 line
27357	PAPOLB	NM_020144.3	1159	ctccacatacacgctgctatt	53240	-	see also 11909 line
27358	PAPOLG	NM_022894.2	1126	tgggactcctgggttaataccatc	53298	-	see also 8496 line
27359	PAPOLG	NM_022894.2	2052	taccgtataggacgaatctga	53332	-	see also 8496 line
27360	PMSCL1	NM_005033.1	703	agcgtgactcctgtaccattag	53353	-	see also 3518 line
27361	PMSCL2	NM_002685.1	1031	ttctactcggacgaagactcoa	53398	-	see also 1748 line
27362	PMSCL2	NM_002685.1	76	cggcgaccagcgcaaccaatoc	53373	-	see also 1748 line
27363	PNPT1	NM_033109.2	1076	tgcgtatggtgggatttgacttc	53454	-	see also 11913 line
27364	PNPT1	NM_033109.2	2109	ctgcgtactcgtttcataacaca	53503	-	see also 11913 line
27365	POLR2G	NM_002696.1	121	ctccctagagcagcaaatctgc	53508	-	see also 11914 line
27366	POLR2G	NM_002696.1	402	cagaaattggcccatgtcttgc	53512	-	see also 11914 line
27367	POP4	NM_006627.1	423	cagatcttcacgggctattat	53530	-	see also 11915 line
27368	POP4	NM_006627.1	642	aacggtctgcgaagaagtcaaa	53541	-	see also 11915 line
27369	PPIE	NM_006112.1	232	gacgtacaattcgttcaatttg	53549	-	see also 4248 line
27370	PPIE	NM_006112.1	815	cacgaagcctagatgtcttc	53555	-	see also 4248 line
27371	PPPIR8	NM_002713.2	1059	agcagcgcatgcagaaacttgc	53557	-	see also 11917 line
27372	PPPIR8	NM_002713.2	1229	gccgtcagcagtgacatgaacc	53558	-	see also 11917 line
27373	PSID	NM_016505.2	663	ctgaccctacaaggaaactctct	53597	-	see also 11918 line
27374	PSID	NM_016505.2	585	aaccaggtgggaactaaactct	53593	-	see also 11918 line
27375	PSMA1	NM_002786.2	592	ttcccaatcagctcgtactact	53620	-	see also 1814 line
27376	PSMA1	NM_002786.2	366	tgcgtcaggaattgtttgattcc	53612	-	see also 1814 line
27377	PSMA6	NM_002791.1	129	ccggttttgaccgccacattacc	53630	-	see also 11920 line
27378	PSMA6	NM_002791.1	168	gtcggctctaccagtagaatat	53632	-	see also 11920 line

図46 (続き)

27379	PUM1	NM_014676.1	3502	agcgaagatcgatcgatcataag	53715	-	see also 5858 line
27380	PUM1	NM_014676.1	3288	atccgaggaatgactgtatt	53712	-	see also 5858 line
27381	PUM1	NM_014676.1	2610	aaccggtaccocaaattacaact	53690	-	see also 5858 line
27382	PUM2	NM_015317.1	2101	cccggttcggtataataggtct	53777	-	see also 6328 line
27383	RAE1	NM_003610.2	517	cagtaaccaagcgatcacagatcg	53837	-	see also 2422 line
27384	RAE1	NM_003610.2	875	atcaggggaggttctattca	53857	-	see also 2422 line
27385	RALY	NM_007367.2	711	tgttcggttcggtcaaaactaac	53878	-	see also 11924 line
27386	RALY	NM_007367.2	710	ttgttcggttcggtcaaaactaac	53877	-	see also 11924 line
27387	RALY	NM_007367.2	716	cggttcggttcggtcaaaactaac	53879	-	see also 11924 line
27388	RBM10	NM_005676.3	1950	gacgtctatatacattatgta	53891	-	see also 3943 line
27389	RBM11	NM_144770.1	814	agccaaagttccgaagttotaa	53915	-	see also 11926 line
27390	RBM11	NM_144770.1	184	caccagaatcggtgtctatgc	53906	-	see also 11926 line
27391	RBM11	NM_144770.1	113	cactaaccaaaagtactatgc	53904	-	see also 11926 line
27392	RBM15	NM_022768.3	1661	tgcgacaccgaacatgattacc	53950	-	see also 11927 line
27393	RBM15	NM_022768.3	136	gtcggttcggttcggtgaacg	53916	-	see also 11927 line
27394	RBM16	NM_014892.1	1513	cacgtctgtattcaagtgaagg	54007	-	see also 6078 line
27395	RBM16	NM_014892.1	3553	ttcggttcggttcggtgaacg	54052	-	see also 6078 line
27396	RBM3	NM_006743.2	474	cagaaaccaggtgtgttatgac	54068	-	see also 11929 line
27397	RBM3	NM_006743.2	89	tgttggaaggttcgaacttaac	54063	-	see also 11929 line
27398	RBM7	NM_016090.2	599	cagcgtgaagtcagaaatgaatc	54079	-	see also 6657 line
27399	RBM7	NM_016090.2	626	ccctacctagcagatagacatta	54082	-	see also 6657 line
27400	RBM9	NM_014309.1	1209	ttggcgttcggttcggttatgac	54100	-	see also 11931 line
27401	RBM9	NM_014309.1	1245	gocgtattgcccctactgaagt	54102	-	see also 11931 line
27402	RBM2	NM_002898.1	433	ctcaaacctccactgtcactg	54103	-	see also 11932 line
27403	RBM2	NM_002898.1	870	ctcgtgttcgttcgtatcagaga	54111	-	see also 11932 line
27404	RBM3	NM_014483.1	1056	gocctatccgcatacgttatgc	54136	-	see also 5701 line
27405	RBM3	NM_014483.1	181	ccccgtacacttactactatcc	54114	-	see also 5701 line
27406	BPMS	NM_006867.1	816	atccgttcgactcgtgaattcc	54150	-	see also 11934 line
27407	BPMS	NM_006867.1	844	cactacgactagaggtttgctaac	54151	-	see also 11934 line
27408	RDBP	NM_002904.4	1216	gacgtctacaagggaacacttgt	54156	-	see also 11935 line
27409	RDBP	NM_002904.4	431	agcgttcacagaggagcatatc	54152	-	see also 11935 line
27410	RENT1	NM_002911.2	2453	aaccgataaaaccgaggttttc	54186	-	see also 1941 line
27411	RENT1	NM_002911.2	2826	agcaaggtatggctcatcattg	54193	-	see also 1941 line
27412	RENT1	NM_002911.2	328	ttcgagttcacgcacttactct	54158	-	see also 1941 line
27413	RNASE1	NM_002933.3	517	ctgtgaaggagggccatattg	54205	-	see also 11937 line
27414	RNASE1	NM_002933.3	256	ctccaccttcgttaaccaaatga	54204	-	see also 11937 line
27415	RNASE1	NM_002936.3	426	gcccgtatgcaagcacatgaac	54207	-	see also 11938 line
27416	RNASE1	NM_002936.3	582	ggggccaggccatctcttaaatg	54208	-	see also 11938 line
27417	RNASE2	NM_006397.2	902	ccggttcctccaccgatttc	54218	-	see also 11939 line
27418	RNASE2	NM_006397.2	425	ctgggttatacagtatgcatg	54213	-	see also 11939 line
27419	RNASEL	NM_021133.2	2055	gacaggtgagcagcagaattaa	54257	-	see also 11940 line
27420	RNASEL	NM_021133.2	1085	gacagcgaggccggaattatgacc	54241	-	see also 11940 line
27421	RNASE2	NM_003730.3	601	atggactatgcccgcataaaagt	54269	-	see also 11941 line
27422	RNASE2	NM_003730.3	581	tcgggattactggacaatacatg	54268	-	see also 11941 line

794

図46 (続き)

27423	RNASET2	NM_003730.3	689	ggcactactggcctgacgtaattc	54270	-	see also 11941 line		
27424	RNSET	NM_003799.1	923	atgaaataatgctgtagatgta	54297	-	see also 11942 line		
27425	RNMT	NM_003799.1	246	aggcaaaagcgtcagtgattct	54278	-	see also 11942 line		
27426	RNMT	NM_003799.1	930	atgctgtagatgtagaattatt	54298	-	see also 11942 line		
27427	RNPC1	NM_017495.4	670	gtctgcctcactcattgagtaca	54311	-	see also 11943 line		
27428	RNPC2	NM_004902.2	709	gacgaagttcccgagcaaaaagt	54324	-	see also 3405 line		
27429	RNPC2	NM_004902.2	963	gtgctctagcaatgagattaac	54336	-	see also 3405 line		
27430	ROD1	NM_005156.3	168	atctataacagctgggttaaaag	54355	-	see also 3623 line		
27431	ROD1	NM_005156.3	557	aagactgacaactctacctaata	54368	-	see also 3623 line		
27432	RPL18	NM_000979.2	282	ggggacataaactgatatgtgc	54397	-	see also 11945 line		
27433	RPL18	NM_000979.2	83	agcccaagagccaggatatctac	54395	-	see also 11945 line		
27434	RPL24	NM_000986.2	57	cagtttttagcgggtacaaagatc	54399	-	structural constituent of ribosome	-	
27435	RPL24	NM_000986.2	43	aagctcgagctgtgcagttttag	54398	-	see also 27434 line		
27436	RPL24	NM_000986.2	443	aggcagcacctaagcaaaagatt	54400	-	see also 27434 line		
27437	RPL28	NM_000991.3	45	gtctgcgcatctgcaatggatgg	54401	-	structural constituent of ribosome	-	
27438	RPL30	NM_000989.2	122	ctccaactcgttatgaaaaagtg	54402	-	structural constituent of ribosome	-	
27439	RPL37A	NM_000998.2	38	ggccaacgctaccagaagaagtcg	54404	-	see also 11946 line		
27440	RPL37A	NM_000998.2	55	aagtcgggactcgtggtaataac	54405	-	see also 11946 line		
27441	RPL3L	NM_005061.2	1114	gtgcgaagcgtggagaataatt	54413	-	see also 11948 line		
27442	RPL3L	NM_005061.2	1115	tgccaaagccgtggagaataattg	54414	-	see also 11948 line		
27443	RPL8	NM_000973.2	218	ccgggactcgttatcgttttaaga	54418	-	see also 11950 line		
27444	RPL8	NM_000973.2	240	aagcggagcggagcgtttcattgc	54420	-	see also 11950 line		
27445	RPLP2	NM_001004.2	402	tgggaattggccttttttgattaa	54426	-	structural constituent of ribosome	-	
27446	RPNI	NM_002950.2	741	aagtcctcactggggaataatt	54440	-	see also 11951 line		
27447	RPNI	NM_002950.2	1049	agctatgagtaacctataaatt	54450	-	see also 11951 line		
27448	RPPI4	NM_007042.1	436	gacctgttaggactcctataaag	54467	-	see also 11952 line		
27449	RPPI4	NM_007042.1	346	accttggacatacctaactatg	54463	-	see also 11952 line		
27450	RPS19	NM_001022.2	72	gctggagattactgtaaaagacg	54474	-	structural constituent of ribosome	-	Diamond-Blackfan anemia (先天性形成不良性貧血), Blackfan-Diamond anemia (ブラックファン・ダイアモンド貧血)
27451	RPS29	NM_001032.2	112	cacgtctgataccggaataatgg	54477	-	see also 11954 line		
27452	RPS29	NM_001032.2	122	tcgggaataatggcctcaatag	54478	-	see also 11954 line		
27453	RPS4Y	NM_001008.2	204	atgatgaacacgtttcacaataa	54484	-	see also 11956 line		
27454	RPS4Y	NM_001008.2	208	atgcaacgtttcacaataatga	54485	-	see also 11956 line		
27455	RPS4Y2	NM_138963.1	609	ttcttgcgatgtggtacatgtga	54491	-	see also 11957 line		
27456	RPS4Y2	NM_138963.1	498	tgggaagataaccagctttatca	54490	-	see also 11957 line		

図46 (続き)

795

27457	RPS5	NM_001009.2	333	aagcatgctcctcgagatcatca	54495	-	see also 11958 line	
27458	RPS5	NM_001009.2	605	ctggaactctctgccaataaga	54496	-	see also 11958 line	
27459	RPS6	NM_001010.2	351	tgcaaatotgagcgttctcaact	54497	-	-	structural constituent of ribosome
27460	RRP40	NM_016042.1	293	aagcgtatgttcagtaaaagg	54499	-	see also 11960 line	
27461	RRP40	NM_016042.1	644	ctctccactcggagatgatt	54515	-	see also 11960 line	
27462	RRP41	NM_019037.1	451	ccacgctcccaagattgatct	54522	-	see also 11961 line	
27463	RRP41	NM_019037.1	310	ggcctagtgaactgtoaata	54518	-	see also 11961 line	
27464	RRP46	NM_020158.1	35	gaagcactgacgcgaataatcc	54529	-	see also 11962 line	
27465	RRP46	NM_020158.1	221	cagcaaaagagatttcaacaagg	54530	-	see also 11962 line	
27466	RTCD1	NM_003729.1	1206	gaagcgcgttaagatacttat	54569	-	see also 11963 line	
27467	RTCD1	NM_003729.1	1131	acgcaaacgcgatacttttgc	54565	-	see also 11963 line	
27468	SARS	NM_006513.2	425	gtgacgcggagcggaataagtg	54583	-	see also 4553 line	
27469	SARS	NM_006513.2	197	ggagtgscgacgatgagatt	54575	-	see also 4553 line	
27470	SBP2	NM_024077.2	1986	ttgtgtacgcacctactcaaaag	54829	-	see also 11965 line	
27471	SBP2	NM_024077.2	2061	gactaaactgactgtgtgtgg	54634	-	see also 11965 line	
27472	SCA1	NM_000332.1	1796	ctccaggtcgtcatgcaatacg	54651	-	see also 281 line	
27473	SCA1	NM_000332.1	2222	ctcaccacacaggtcattcaga	54652	-	see also 3145 line	
27474	SF1	NM_004630.1	777	cagcaaacaggtgtgagataaa	54679	-	see also 3145 line	
27475	SF1	NM_004630.1	732	ttgcaactaatccggatttcaag	54678	-	see also 11968 line	
27476	SF3A2	NM_007165.3	529	tgccacgtcacgcgttcattgt	54699	-	see also 11968 line	
27477	SF3A2	NM_007165.3	824	ggcagcgtgcctcgtgcttgc	54700	-	see also 11970 line	
27478	SFRS14	NM_014884.1	3101	gggtcgtccatgtccaaaag	54716	-	see also 11971 line	
27479	SFRS14	NM_014884.1	901	cccacogtgaatcgttacttc	54736	-	see also 11971 line	
27480	SFRS3	NM_003017.3	289	agctagatgaagaacactatgt	54781	-	see also 4860 line	
27481	SFRS3	NM_003017.3	107	ttcctgtccattggactgaagg	54785	-	see also 4860 line	
27482	SKIV2L	NM_006929.3	610	tgagagcactcagcccgaaatgg	54816	-	see also 4860 line	
27483	SKIV2L	NM_006929.3	1926	ttcaatacaaaagggtactatgc	54801	-	see also 4860 line	
27484	SKIV2L	NM_006929.3	1498	tcgggaacttcgaaacacattc	54839	-	see also 11973 line	
27485	SNRPA	NM_004596.3	1147	tcacccgaatcacatctgttcc	54837	-	see also 11973 line	
27486	SNRPA	NM_004596.3	1140	ctgagaatccaccgaatcacatc	54843	-	see also 2080 line	
27487	SNRPA1	NM_003093.1	557	tgcaacgttgcaaaagatattg	54845	-	-	RNA binding
27488	SNRPA1	NM_003093.1	171	aacaaaggctgcatttcaacaag	54846	-	see also 27488 line	
27489	SNRPA1	NM_003093.1	180	tgcatcacaagaagaagatagc	54871	-	see also 2116 line	
27490	SRP54	NM_003136.2	1205	tacgttcgagacatgtatgagc	54864	-	see also 2116 line	
27491	SRP54	NM_003136.2	1016	tgccacaaaaggccgattatt	54921	-	see also 5548 line	
27492	SRP68	NM_014230.2	1303	accgatccgactctatgacatc	54909	-	see also 5548 line	
27493	SRP68	NM_014230.2	766	tcgctattgtgcataataatt	54930	-	see also 3127 line	
27494	SSA2	NM_004600.3	304	atcgactacaccggttctatgt	54948	-	see also 3127 line	
27495	SSA2	NM_004600.3	1038	atgccccttactgcattactaag	55024	-	see also 2149 line	
27496	SUPV3L1	NM_003171.2	1873	atggttaacgcgatacatcaat	55023	-	see also 2149 line	
27497	SUPV3L1	NM_003171.2	1870	tgcatgttaacgcgatacatca	55048	-	see also 11978 line	
27498	SURF6	NM_006753.3	713	aggcgcagcgcgaaagagaag		-		

図46 (続き)

796

27499	SURF6	NM_006753.3	426	gcacagcgcactgcacagaaga	55045	-	see also 11978 line
27500	SYNCRIP	NM_006372.3	1424	cccagcgaagcgtaggttaattg	55073	-	see also 4463 line
27501	SYNCRIP	NM_006372.3	1423	gccagcgaagcgtaggttaatt	55072	-	see also 4463 line
27502	SYNJ1	NM_003895.1	1518	aagctgcagcactttaactact	55137	-	see also 11980 line
27503	SYNJ1	NM_003895.1	1416	ctgttacccgaacaatcagaat	55131	-	see also 11980 line
27504	SYNJ2	NM_003898.1	1194	gagaacgtcagtcacagtttca	55232	-	see also 2655 line
27505	SYNJ2	NM_003898.1	2265	actacccgactgactcttaacta	55252	-	see also 2655 line
27506	TARBP1	NM_005646.2	4314	cagctggtttccgacttagacc	55385	-	see also 11982 line
27507	TARBP1	NM_005646.2	4411	atcgacaaacccgacttagacc	55387	-	see also 11982 line
27508	TEP1	NM_007110.3	1816	cactgtatagcgggataactact	55418	-	see also 4953 line
27509	TEP1	NM_007110.3	7425	aggacccataatcgataactca	55503	-	see also 4953 line
27510	TRNT1	NM_016000.2	1130	tactcgtatgtgaactacttga	55552	-	see also 6602 line
27511	TRNT1	NM_016000.2	499	aacgcagagatcactataaat	55526	-	see also 6602 line
27512	TTC14	NM_133462.1	1650	atctaggcactcccaactcaga	55604	-	see also 6602 line
27513	TTC14	NM_133462.1	549	ggagatatagcccccacttagaa	55567	-	see also 9581 line
27514	UPF2	NM_015542.2	558	gcgcctcgcactcaagtttgaag	55632	-	see also 11986 line
27515	UPF2	NM_015542.2	2297	gcgagatacgtcacaaatgttaga	55676	-	see also 11986 line
27516	WBP4	NM_007187.3	611	gaccgtttgagtagaaggtttaa	55738	-	see also 4986 line
27517	WBP4	NM_007187.3	612	accgtttgggtagaaggtttaag	55739	-	see also 4986 line
27518	WBP4	NM_007187.3	177	gacaatagccctagtgttgaatt	55725	-	see also 4986 line
27519	WIG1	NM_022470.2	934	tcccgcctcgcagcagaatttc	55772	-	see also 8391 line
27520	WIG1	NM_022470.2	642	ctccgcagataggctccttaag	55762	-	see also 8391 line
27521	XRN2	NM_012255.2	1855	acggttaaacacactagaacaac	55838	-	see also 5224 line
27522	XRN2	NM_012255.2	816	atgaaccgaacttaccattatt	55802	-	see also 5224 line
27523	ZFR	NM_016107.3	3185	acgcgaatgagccaacgtttta	55921	-	see also 6664 line
27524	ZFR	NM_016107.3	3147	ttccgcagatcacacaagtct	55919	-	see also 6664 line
27525	ZNF318	NM_014345.1	2629	gactctcgcagcctcaattcc	55973	-	see also 5630 line
27526	ZNF318	NM_014345.1	3676	gagctaaagcgcacaaacttagga	55994	-	see also 5630 line
27527	ZNF385	NM_015481.1	412	cgccacgcgcgcagcagtcacagg	56072	-	see also 6435 line
27528	ZNF385	NM_015481.1	355	atctgtcaaatccgcttcaattc	56071	-	see also 6435 line
27529	ZPR9	NM_033414.2	867	ccctacacgcactgctatttt	56084	-	see also 9422 line
27530	BRF2	NM_018310.2	845	ttccctgcccgcattttgtaaat	56114	-	see also 11992 line
27531	BRF2	NM_018310.2	846	ttccctgcccgcattttgtaaat	56115	-	see also 11992 line
27532	BZW1	NM_014670.1	947	gccagtgctcctgggaatagct	56135	-	see also 5848 line
27533	BZW1	NM_014670.1	267	taccgtcgatatcgagaacact	56128	-	see also 5848 line
27534	BZW2	NM_014038.1	328	ggctaaagattagattatcgtcg	56140	-	see also 5468 line
27535	BZW2	NM_014038.1	682	acgcacagcttagtcaagaagg	56145	-	see also 5468 line
27536	CGI-09	NM_015939.3	666	cacatgatatcacatacactagc	56172	-	see also 11995 line
27537	CGI-09	NM_015939.3	389	agcgggcactgataatcgaaata	56161	-	see also 11995 line
27538	COPS5	NM_006837.2	463	ctggaactaagatcacactact	56192	-	see also 4791 line
27539	COPS5	NM_006837.2	1068	gggtgaatactaggtttctct	56213	-	see also 4791 line
27540	COPS6	NM_006833.4	632	gaccacgttagcccgatgacagc	56232	-	see also 4788 line
27541	COPS6	NM_006833.4	769	agcggagaggtccccccttaac	56233	-	see also 4788 line
27542	DENR	NM_003677.2	435	aagaccgtaccacaaagggttac	56244	-	see also 2498 line

図46 (続き)

27543	DENR	NM_003677.2	189	taccacttcgagctcttattg	56239	-	see also 2498 line
27544	DENR	NM_003677.2	226	taccacagagctactgtgaatg	56240	-	see also 2498 line
27545	eIF2A	NM_032025.1	1021	ctcgttaatcgagctactatagc	56279	-	see also 11999 line
27546	eIF2A	NM_032025.1	1171	gccggatggtgagcatatttta	56286	-	see also 11999 line
27547	eIF2A	NM_032025.1	1172	ccggatggtagcctattttaa	56287	-	see also 11999 line
27548	eIF2B1	NM_001414.1	249	ccctggaatactccgattactcc	56303	-	see also 977 line
27549	eIF2B2	NM_014239.1	847	ctgtgcacctatgtcaaacctt	56331	-	see also 12001 line
27550	eIF2B2	NM_014239.1	1057	ccgctgtgagtgagtaacttacc	56333	-	see also 12001 line
27551	eIF2B3	NM_020365.1	1207	tcatttaagcctcagtcattgg	56358	-	see also 12002 line
27552	eIF2B3	NM_020365.1	457	gacctgttaagcttatgatgc	56346	-	see also 12002 line
27553	eIF2B4	NM_015636.2	512	caggttcctacacgaaggatta	56364	-	see also 6525 line
27554	eIF2B5	NM_003907.1	865	ttgtcggaggtctcttagtgat	56413	-	see also 12004 line
27555	eIF2B5	NM_003907.1	706	agggtccggcggtttgcattt	56405	-	see also 12004 line
27556	eIF2C1	NM_012199.2	1951	cagcgctctcgccgttttcaaca	56457	-	see also 5187 line
27557	eIF2C1	NM_012199.2	1282	aacgagacctcgaccatgataa	56449	-	see also 5187 line
27558	eIF2C2	NM_012154.2	2340	tcctctggagacacaatcgttc	56501	-	see also 12006 line
27559	eIF2C2	NM_012154.2	1156	gccgagtcggaagaagagatta	56483	-	see also 12006 line
27560	eIF2C2	NM_012154.2	2239	caagactgtgacacagaaatca	56498	-	see also 12006 line
27561	eIF3k	NM_013234.1	462	gccaatcgcagagattttgaac	56503	-	see also 12006 line
27562	eIF3k	NM_013234.1	461	ggccaatcgcagagattttgtac	56502	-	see also 27561 line
27563	eIF3S1	NM_003758.1	442	gacctcgaattagcaagaagaaac	56505	-	see also 12007 line
27564	eIF3S1	NM_003758.1	801	tgagagatatgtacagactatg	56507	-	see also 12007 line
27565	eIF3S10	NM_003750.1	145	ccctcaaacgcgcgaacgaattt	56509	-	see also 12008 line
27566	eIF3S10	NM_003750.1	3477	aacgcgcgtatgacagaaattcc	56601	-	see also 12008 line
27567	eIF3S10	NM_003750.1	624	ggagcgcgtatgacagaaattcc	56524	-	see also 12008 line
27568	eIF3S2	NM_003757.1	46	agcggtccattacacagattaaag	56617	-	see also 12009 line
27569	eIF3S2	NM_003757.1	106	aggacccctatgcaatgtatgg	56623	-	see also 12009 line
27570	eIF3S2	NM_003756.1	316	tgccggagccttcgccatgtaaac	56640	-	see also 12010 line
27571	eIF3S3	NM_003756.1	841	agcgctgcgcagcagaggaatag	56661	-	see also 12010 line
27572	eIF3S6	NM_001568.1	697	ccccaaagtcgcgataatatta	56684	-	see also 12011 line
27573	eIF3S6	NM_001568.1	696	accccaagtgctgcgataatatt	56683	-	see also 12011 line
27574	eIF3S6P	NM_016091.1	84	cgcttatcccgagactatgata	56711	-	see also 6658 line
27575	eIF3S6P	NM_016091.1	582	ctggagattattcgatgattca	56721	-	see also 6658 line
27576	eIF3S7	NM_003753.2	1729	ctcggtaccacgtgaagactcc	56765	-	see also 12013 line
27577	eIF3S7	NM_003753.2	651	cagcggaaatgaatgagatttgc	56736	-	see also 12013 line
27578	eIF3S8	NM_003752.2	415	ggctgacactagagagactcttta	56769	-	see also 2568 line
27579	eIF4EBP1	NM_004095.2	357	tgccaatagccacagagataaag	56783	-	-
27580	eIF4EBP1	NM_004095.2	386	ggcggtagaagtcacagtttga	56784	-	see also 27579 line
27581	eIF4EBP2	NM_004096.3	374	accggaggaactcgaatcattt	56788	-	see also 12015 line
27582	eIF4EBP2	NM_004096.3	317	cgcgagactcactatgactatt	56785	-	see also 12015 line
27583	eIF4EBP3	NM_003732.1	342	accgatgacgcacaaattgaaa	56792	-	-
27584	eIF4EBP3	NM_003732.1	343	cccgatgacgcacaaattgaaat	56793	-	see also 27583 line
27585	eIF5A2	NM_020390.5	193	gtgctggccttgcgaanaaag	56832	-	see also 7862 line
27586	eIF5A2	NM_020390.5	232	aggagaccactgcaaatatgagg	56833	-	see also 7862 line

図46 (続き)

798

27587	FLJ20288	NM_024668.1	1015	aacactgcgttaacttatgcgtg	378002	-	see also 12018 line
27588	FLJ20288	NM_024668.1	858	agcacaagtattgctgtatgc	377997	-	see also 12018 line
27589	GC20	NM_005875.1	289	aactaaaggtgacgaactactcc	56853	-	see also 12019 line
27590	GC20	NM_005875.1	530	ctcttgagggtggcctatgtaaa	56858	-	see also 12019 line
27591	GC20	NM_005875.1	469	tctgaatacagagagaggttttc	56857	-	see also 12019 line
27592	IF2	NM_015904.2	3450	ttctcgagatccgatatgtaggg	56933	-	see also 12020 line
27593	IF2	NM_015904.2	3536	ttgttgacatcggaatagtaaca	56934	-	see also 12020 line
27594	ITGB4BP	NM_002212.2	82	gagcttcgttcgagacaactgt	56942	-	see also 12021 line
27595	ITGB4BP	NM_002212.2	80	cagagcttcgttcgagacaact	56941	-	see also 12021 line
27596	KIAA0664	NM_015229.2	1236	tcggagaaaggccattatcaag	56952	-	see also 12022 line
27597	KIAA0664	NM_015229.2	2240	gccttcgacattcgcttcaatcc	56955	-	see also 12022 line
27598	KIAA0664	NM_015229.2	871	acggggcttttaoctgaatcagt	56950	-	see also 12022 line
27599	LAMA5	NM_005560.3	10884	accggctagcgggtgatgaaagc	56988	-	see also 12023 line
27600	LAMA5	NM_005560.3	8395	taccgagatcgcttggtagtg	56972	-	see also 12023 line
27601	LRIG2	NM_014813.1	446	gtcataatcagttgttaactgg	56992	-	see also 12024 line
27602	LRIG2	NM_014813.1	2891	ccgggtgatttgcctagattgt	57056	-	see also 12024 line
27603	MFHAS1	NM_004225.1	3055	aacggcagcgagcgagtaaatgt	57096	-	see also 12025 line
27604	MFHAS1	NM_004225.1	2128	agcggcaagctactctactttga	57081	-	see also 12025 line
27605	MFHAS1	NM_004225.1	3057	cgagcagcgagcgagtaaatgtg	57097	-	see also 12025 line
27606	MGC11102	NM_032325.2	721	aacacaaacgcagacagatcatg	57101	-	see also 12026 line
27607	MGC11102	NM_032325.2	723	cacaaacgcagacagatcatg	57102	-	see also 12026 line
27608	MGC3207	NM_032285.1	787	accggaagagagataattatga	57104	-	see also 12027 line
27609	MGC3207	NM_032285.1	823	caggagctgacgcgattgaatgg	57107	-	see also 12027 line
27610	MRPL49	NM_004927.2	268	tccccaagcatgaacattatc	57109	-	see also 12028 line
27611	MRPL49	NM_004927.2	329	cccaactgccttaatttagtg	57111	-	see also 12028 line
27612	MTIF2	NM_002453.1	1240	tcgcacttacggcgagataatct	57143	-	see also 12029 line
27613	MTIF2	NM_002453.1	1242	cgcaattacggcgagataatctga	57144	-	see also 12029 line
27614	MTIF2	NM_002453.1	1244	cacttacggcgagataatctgatg	57145	-	see also 12029 line
27615	MTIF3	NM_152912.3	693	aacactagtcagattaccata	57191	-	see also 12030 line
27616	MTIF3	NM_152912.3	386	cagcagattatcaactatttga	57184	-	see also 12030 line
27617	PSMD7	NM_002811.3	486	ttcgtatttggtcaatcattgatg	57204	-	see also 1828 line
27618	PSMD7	NM_002811.3	487	tcggtatttggtcaatcattgatg	57205	-	see also 1828 line
27619	RRN3	NM_018427.2	1047	atctatatcgacccgtgataaac	57217	-	see also 12032 line
27620	RRN3	NM_018427.2	1053	atcggaacctgataaacattttt	57218	-	see also 12032 line
27621	EEF1A2	NM_001958.2	248	atctacaaatcgagagatttga	57224	-	see also 12033 line
27622	EEF1A2	NM_001958.2	1465	ggccgtaggcgtcatcaagaacg	57229	-	see also 12033 line
27623	EEF1G	NM_001404.3	456	ggctcgtggtgcttacttgaag	57236	-	translation elongation factor -
27624	EEF2	NM_001961.2	966	gtgtttgatcgcatcatgaattt	57240	-	see also 12034 line
27625	EEF2	NM_001961.2	973	atgcgcatcatgaatttcaagaa	57242	-	see also 12034 line
27626	EEF1	NM_024996.5	597	cgctacaaagcttcggtttctaac	57252	-	see also 8830 line
27627	EEF1	NM_024996.5	1677	gcctttcgagagaccattactgc	57296	-	see also 8830 line
27628	EEF1	NM_024996.5	2113	accgacgcctatggggttaactc	57309	-	see also 8830 line
27629	EEF2	NM_032380.3	1354	ttcaactgaagagcgtaactatg	57343	-	see also 9178 line

図46 (続き)

27630	EFQ2	NM_032380.3	1357	acctgaagagcgtaactatgaat	57344	-	see also 9178 line
27631	ELL3	NM_025165.1	815	ctgaccaatcagagattacaaga	57402	-	see also 12037 line
27632	ELL3	NM_025165.1	863	gaggacaatgagaccagattaga	57404	-	see also 12037 line
27633	FLJ13119	NM_024580.3	198	agccgctcagcagcaggaattag	57414	-	see also 8648 line
27634	FLJ13119	NM_024580.3	369	accgcttgcgaattgtatgg	57426	-	see also 8648 line
27635	FLJ13119	NM_024580.3	471	atccgctccgcttttagtattaa	57427	-	see also 8648 line
27636	FLJ13220	NM_021927.1	1147	aggcgaataggagatacattat	57499	-	see also 8199 line
27637	FLJ13220	NM_021927.1	1139	gtactgaagcgaataaggaga	57498	-	see also 8199 line
27638	GSPT1	NM_002094.1	843	accgcaaggtgctcctaagaaag	57527	-	see also 12040 line
27639	GSPT1	NM_002094.1	1286	aacacctaatgttctaataat	57529	-	see also 12040 line
27640	GSPT2	NM_018094.1	1896	accgctctcgtgaacaagatc	57552	-	see also 12041 line
27641	GSPT2	NM_018094.1	1958	gcctcgagcgttcaagatttt	57559	-	see also 12041 line
27642	GTPBP1	NM_004286.3	721	gtocagaagaagtcattacctca	57570	-	see also 2870 line
27643	GTPBP1	NM_004286.3	355	gagcatggcggaacagatagagg	57566	-	see also 2870 line
27644	GTPBP2	NM_019096.2	395	caccgaggtcgtagtagaagg	57586	-	see also 12042 line
27645	GTPBP2	NM_019096.2	533	ccgggctcgctcaacctttcc	57587	-	see also 12042 line
27646	HBS1L	NM_006620.2	2023	cgccgtattataaacgattgta	57655	-	see also 4680 line
27647	HBS1L	NM_006620.2	2024	gcggtattataaacgattgtag	57656	-	see also 4680 line
27648	HTATSF1	NM_014500.3	408	aacgatggcgcatctgtctac	57673	-	see also 12044 line
27649	HTATSF1	NM_014500.3	422	tagttctaccgcaaatgtgaag	57676	-	see also 12044 line
27650	SELB	NM_021937.2	455	ttccgagtgacagattatacc	57728	-	see also 12045 line
27651	SELB	NM_021937.2	1666	gactttcaagggttatgtctcg	57738	-	see also 12045 line
27652	SUPT16H	NM_007192.2	1809	ggagcgttagctgaacaaaagg	57766	-	see also 4990 line
27653	SUPT16H	NM_007192.2	2306	accggagtaatccgaactgaag	57782	-	see also 4990 line
27654	SUPT16H	NM_007192.2	843	ggcatataccatcgctgaagg	57750	-	see also 4990 line
27655	TUFM	NM_003321.3	542	gacccgagagcacttattactag	57811	-	see also 2253 line
27656	TUFM	NM_003321.3	311	ggagagtgaggctaaagtcaaga	57800	-	see also 2253 line
27657	FLJ38663	NM_152289.1	903	tcacctcagcctcgttgtaag	57827	-	see also 12048 line
27658	FLJ38663	NM_152289.1	647	agcacgctgggtttatttcattt	57821	-	see also 12048 line
27659	ICT1	NM_001545.1	217	tcctctagatcgcttgacaata	57834	-	see also 12049 line
27660	ICT1	NM_001545.1	220	ctctagatcgcttgacaatact	57836	-	see also 12049 line
27661	ICT1	NM_001545.1	218	ccctctagatcgcttgacaata	57835	-	see also 12049 line
27662	MTRF1	NM_004294.2	827	ttccggtgacgggtgtctaaag	57861	-	see also 12050 line
27663	MTRF1	NM_004294.2	1248	ggcgaattcggacataataatt	57871	-	see also 12050 line
27664	ABCF1	NM_001090.1	857	ttccgcaagcgaatttagaaaa	57885	-	see also 12051 line
27665	ABCF1	NM_001090.1	782	gagcgcaagtggtgttcattaaa	57883	-	see also 12051 line
27666	EEF2K	NM_013302.2	1614	agctctggagcgggtatgtgtaga	57922	-	see also 12052 line
27667	EEF2K	NM_013302.2	2029	tagtggcgcgagctttgactct	57927	-	see also 12052 line
27668	PET112L	NM_004564.1	327	tgggaactttccgggtctcaaca	57933	-	see also 3103 line
27669	PET112L	NM_004564.1	831	ggcgcttcgaacgaagtgaaga	57949	-	see also 3103 line
27670	AF020591	NM_014480.1	1923	aactotaacctgtcacataca	57984	-	see also 12054 line
27671	AF020591	NM_014480.1	763	ttctactacaacattactaca	57970	-	see also 12054 line
27672	AF020591	NM_014480.1	905	agctttctgaagattttact	57972	-	see also 12054 line
27673	AFG3L2	NM_006796.1	221	cgggagcgtttaccgatttgta	57987	-	see also 12055 line

図46 (続き)

800

27674	AFG3L2	NM_006796.1	1469	caccaatcgaccagatatcctgg	58018	-	see also 12055 line
27675	ARIH2	NM_006321.1	503	ctcgagttcagcctaataccatca	58055	-	see also 12056 line
27676	ARIH2	NM_006321.1	1420	tacacctaccatatacatatca	58073	-	see also 12056 line
27677	ARIH2	NM_006321.1	916	ttcaagtgctgcagatgatca	58062	-	see also 12056 line
27678	ASK	NM_006716.2	1243	aagtgagcaacacagaaactttg	58075	-	see also 4734 line
27679	ASK	NM_006716.2	1270	gagtaaccagatcaagtgttg	58076	-	see also 4734 line
27680	BANK1	NM_017935.2	935	gtctactgtgatggaatcgtaa	58103	-	see also 12058 line
27681	BANK1	NM_017935.2	2301	gacaactacagagactgcattatt	58144	-	see also 12058 line
27682	BANK1	NM_017935.2	2445	ctctcgaccaccaagtgaag	58147	-	see also 12058 line
27683	BAT4	NM_033177.2	756	ggctgcagcccgagcttctatg	58152	-	see also 12059 line
27684	BAT4	NM_033177.2	1307	gtgacacccacttccagattcc	58154	-	see also 12059 line
27685	BDG29	NM_015144.1	518	tggtccgagcactttttgtgg	58164	-	see also 12060 line
27686	BDG29	NM_015144.1	396	ttgtggtctgattcttaataac	58159	-	see also 12060 line
27687	BDG29	NM_015144.1	2026	gtgtgccccctgcaataataaac	58184	-	see also 12060 line
27688	BOLL	NM_033030.3	653	ggagatccctcgtctagtataat	58205	-	see also 9351 line
27689	BOLL	NM_033030.3	652	aggatccctcgtctagtataat	58204	-	see also 9351 line
27690	BRUNOL6	NM_052840.2	1003	ctccgacacgctctacataaacg	58226	-	see also 9434 line
27691	BRUNOL6	NM_052840.2	1273	agccgtgtctctgctaaagtct	58228	-	see also 9434 line
27692	C13orf10	NM_022118.3	1448	aagcagatagagatagtagtg	58271	-	see also 8282 line
27693	C13orf10	NM_022118.3	717	gtctcttggtacactagtttc	58249	-	see also 8282 line
27694	C14orf14	NM_018199.1	114	tggttcgctgcccagactaatc	58299	-	see also 7314 line
27695	C14orf14	NM_018199.1	240	aggattatgacctggtgttagg	58307	-	see also 7314 line
27696	C14orf6	NM_145250.1	612	cagggtgccaataccatagtgtta	58340	-	see also 12065 line
27697	C14orf6	NM_145250.1	268	atgaacccgactcctgtgtgttaa	58330	-	see also 12065 line
27698	C20orf99	NM_033089.4	891	atcttggaacggagagtagcaaatg	58346	-	see also 12066 line
27699	C20orf99	NM_033089.4	1009	agcccaagacatgctttaaatgt	58348	-	see also 12066 line
27700	C21orf107	NM_018963.3	2793	gtcgacgaattactcgtatttgt	58439	-	see also 7610 line
27701	C21orf107	NM_018963.3	3752	accgatctttacacaattcgaat	58472	-	see also 7610 line
27702	C21orf107	NM_018963.3	5315	ttgcgggtagcccggaataatg	58511	-	see also 7610 line
27703	CGI-18	NM_015947.1	1202	aggcatctggactaataatgaaa	58588	-	see also 12068 line
27704	CGI-18	NM_015947.1	619	agcttgctctataagcatatagt	58571	-	see also 12068 line
27705	CGI-72	NM_016018.3	1149	ggactcgacttaacaagattact	58627	-	see also 12069 line
27706	CGI-72	NM_016018.3	831	aggattggatagcttagtcaaa	58613	-	see also 12069 line
27707	GNOT4	NM_013316.1	1726	accgagcgtttataatcattc	58686	-	see also 5396 line
27708	GNOT4	NM_013316.1	1723	agcaacgagcgtttataatca	58684	-	see also 5396 line
27709	COL4A3	NM_000091.2	3841	caggctcgccgggtgaattatc	58722	-	see also 12071 line
27710	COL4A3	NM_000091.2	2993	ttcagagatatccacgtaatag	58714	-	see also 12071 line
27711	COVA1	NM_006375.2	1177	gtcgtagcgccaataactctac	58760	-	see also 4465 line
27712	COVA1	NM_006375.2	1174	accgtcgtagcgccaataacttc	58758	-	see also 4465 line
27713	CPEB1	NM_030594.2	1549	gggtattagccgacagtaacttt	58809	-	see also 8893 line
27714	CPEB1	NM_030594.2	1693	atgcgggtaggacacagataag	58812	-	see also 8893 line
27715	CPEB3	NM_014912.1	1096	accggagtaggcccctatgatac	58828	-	see also 6085 line
27716	CPEB3	NM_014912.1	1095	gaccggagtaggcccctatgatac	58827	-	see also 6085 line
27717	CPSF4	NM_006693.1	250	ctcgagtgccctatgaagaagg	58901	-	see also 4726 line

801

図46 (続き)

27718	GST2T	NM_015235.1	357	gcctgcagcgccattatgact	58909	-	see also 12077 line
27719	GST2T	NM_015235.1	58	gtgagagaccggcaatggatcg	58906	-	see also 12077 line
27720	DARS	NM_001349.1	916	gacttaatacccataagacatct	58942	-	see also 896 line
27721	DC50	NM_031210.3	50	ggcgctgcgtgagaagtatcaatc	58963	-	see also 12079 line
27722	DC50	NM_031210.3	51	ggcgtcgtgagaagtatcaatca	58964	-	see also 12079 line
27723	DDX26	NM_012141.1	1521	cagggtacgtggagcaatagtc	58991	-	see also 5148 line
27724	DDX26	NM_012141.1	1935	cggagccgatacacatggtttatc	59000	-	see also 5148 line
27725	DDX31	NM_022779.7	1441	cggagctagctgatacatcgtttg	59078	-	see also 12081 line
27726	DDX31	NM_022779.7	1246	gagcgctggtggatcataaaaa	59073	-	see also 12081 line
27727	DDX39	NM_005804.2	116	aacgatctttggattacgatga	59104	-	see also 12082 line
27728	DDX39	NM_005804.2	1301	caggaccggtttgaagttaatgt	59115	-	see also 12082 line
27729	DDX4	NM_019039.1	1435	aacagcgccaaccccttatgttc	59166	-	see also 7670 line
27730	DDX4	NM_019039.1	1951	atcttgaataggataaccattta	59176	-	see also 7670 line
27731	DDX42	NM_007372.1	1014	atcctgatcgaccctattogagt	59212	-	see also 5095 line
27732	DDX42	NM_007372.1	807	acccaggtcgactgatgatca	59201	-	see also 5095 line
27733	DDX42	NM_007372.1	1195	aagagctagcgaataaacttaaa	59218	-	see also 5095 line
27734	DDX46	NM_014829.1	158	cagccactatcgaaaacgatcg	59241	-	see also 6032 line
27735	DDX46	NM_014829.1	152	ggaggtcacgcccactatcgaaa	59239	-	see also 6032 line
27736	DDX47	NM_016355.2	928	agcgcctaggatcccttaataag	59342	-	see also 6838 line
27737	DDX47	NM_016355.2	197	ggccttaaaaggttgatatac	59319	-	see also 6838 line
27738	DDX49	NM_019070.3	460	ctgcgcagctccaacacittttag	59364	-	see also 12087 line
27739	DDX49	NM_019070.3	1259	cggccactttgacgaaaaaag	59371	-	see also 12087 line
27740	DDX50	NM_024045.1	432	aagcaggtatcatttttagatc	59379	-	see also 8570 line
27741	DDX51	NM_175086.2	658	caaggatctgtctactttcc	59425	-	see also 12088 line
27742	DDX51	NM_175086.2	1411	gacgggattcgggaagatgc	59428	-	see also 12088 line
27743	DDX51	NM_175086.2	986	aggagagcctcgtccagaaaaa	59427	-	see also 12088 line
27744	DDX52	NM_007010.2	908	gactactccaatcgaactatct	59444	-	see also 4890 line
27745	DDX52	NM_007010.2	599	gctcagcgaatccaatgcaag	59436	-	see also 4890 line
27746	DDX53	NM_182699.1	1622	agcgagcagtagaggactttaa	59512	-	see also 12090 line
27747	DDX53	NM_182699.1	1684	tccgaggtcttgaattatga	59518	-	see also 12090 line
27748	DDX54	NM_024072.2	666	tgcagaaaaatccgacataatt	59535	-	see also 12091 line
27749	DDX54	NM_024072.2	1744	ggcgactatctttgagatcaacg	59543	-	see also 12091 line
27750	DDX54	NM_001358.1	912	ctggagcgttatgggtataat	59558	-	see also 911 line
27751	DDX54	NM_003587.3	273	agcgccctacgagacacgatacc	59617	-	see also 2380 line
27752	DDX54	NM_003587.3	3168	aggtggctcccatattataag	59653	-	see also 2380 line
27753	DDX29	NM_019030.1	3509	gacgatctacaatgcattatctag	59736	-	see also 12094 line
27754	DDX29	NM_019030.1	2901	ggagcgggtatcactatctctga	59719	-	see also 12094 line
27755	DDX33	NM_020162.2	2040	cggagcctcgtcgtcatagatgc	59786	-	see also 7773 line
27756	DDX33	NM_020162.2	920	gagctgcgagacattgcaaacg	59770	-	see also 7773 line
27757	DDX35	NM_021931.2	1195	gtcgtagtcgctcgggaatgt	59825	-	see also 12095 line
27758	DDX35	NM_021931.2	609	ggagatctcgtattgattagc	59805	-	see also 12095 line
27759	DDX36	NM_020865.1	981	aacaggggttctcttattatgt	59874	-	see also 8005 line
27760	DDX36	NM_020865.1	260	ggcatgtggtacgcgaaaaaca	59855	-	see also 8005 line
27761	DDX36	NM_020865.1	2385	gagcgtgtttcagatcacgaaag	59931	-	see also 8005 line

図46 (続き)

802

27762	DHX37	NM_032656.2	1965	ggcggagacgtgcttaccatcc	59970	-	see also 12097 line
27763	DHX37	NM_032656.2	1087	tctaccagatccggatgaagg	59963	-	see also 12097 line
27764	DHX40	NM_024612.3	2012	gtctttgcgggctatttcaaa	59993	-	see also 12098 line
27765	DHX40	NM_024612.3	537	aggataccaagttcgtttgatg	59986	-	see also 12098 line
27766	DHX40	NM_024612.3	2176	accaaatgtacgcaagaattgt	59997	-	see also 12098 line
27767	DIAPH3	NM_030932.2	220	ctcttcgggtatgcatttaggg	60008	-	see also 8967 line
27768	DIAPH3	NM_030932.2	1584	aacacgggtggcagagctatga	60043	-	see also 8967 line
27769	DKFZP434	NM_032143.1	781	accggattcaacatctatactaaag	60100	-	see also 12100 line
27770	DKFZP434	NM_032143.1	444	ctctgcaacctatataataattc	60085	-	see also 12100 line
27771	DKFZP434	NM_031284.3	206	agcctgggagcgcttattcgtgc	60138	-	see also 9002 line
27772	DKFZP434	NM_031284.3	919	agctggccagtgatgaactaacagg	60153	-	see also 9002 line
27773	DKFZP434	NM_031284.3	700	cccatgcccaaccagattcatcttc	60148	-	see also 9002 line
27774	DKFZP434	NM_015496.3	1349	cgccaacctatcgcttaaatgt	60213	-	see also 12102 line
27775	DKFZP434	NM_015496.3	1348	tgcgaacctatcgcttaaatgt	60212	-	see also 12102 line
27776	DKFZP547	NM_152606.2	1521	cagcttaacggcacaataaacaat	60337	-	see also 12103 line
27777	DKFZP547	NM_152606.2	2098	gtcgtagtgttagaccttagaata	60346	-	see also 12103 line
27778	DKFZP564	NM_031306.1	1397	gtgccaatgtacgtcagattatt	60386	-	see also 9009 line
27779	DKFZP564	NM_031306.1	1398	tgcgaatgtacgtcagattatt	60387	-	see also 9009 line
27780	DKFZP761	NM_032280.1	3168	cccgaggttagtaccacataaac	60401	-	see also 12105 line
27781	DKFZP761	NM_032280.1	3167	gcccggaggttagtaccacataaa	60400	-	see also 12105 line
27782	DKFZP762	NM_152411.1	1351	gggcttcgccaaagcaggtgtaaac	60443	-	see also 12106 line
27783	DKFZP762	NM_152411.1	859	cgggaacgctgacgggtgaatgt	60442	-	see also 12106 line
27784	DND1	NM_194249.1	1082	ggcaggtaccatgggttaaacagt	60453	-	see also 12107 line
27785	DND1	NM_194249.1	1080	gggaggtaccatgggttaaacaa	60452	-	see also 12107 line
27786	DRB1	NM_152945.1	612	gggctacgtacgatactaaac	60463	-	see also 9967 line
27787	DRB1	NM_152945.1	606	aggtttgggctacgtacgatact	60460	-	see also 9967 line
27788	ECGP	NM_018025.2	1854	aagcgtacgacaggttcttagt	60514	-	see also 12109 line
27789	ECGP	NM_018025.2	2328	caocggaggtcccgacaataatcaag	60522	-	see also 12109 line
27790	EHD2	NM_014601.2	1072	tgcgaggttcacgcttaccatcatc	60537	-	see also 12110 line

図46 (続き)

803

27791	EHD2	NM_014601.2	1499	gaccaaggacaaagtccaaataag	60539	-	see also 12110 line
27792	EHD3	NM_014600.1	1282	aacaactggcggagatctatgg	60543	-	see also 12111 line
27793	EHD3	NM_014600.1	925	atcgagtggtgctgaacaaagc	60541	-	see also 12111 line
27794	ENDOGL1	NM_005107.1	258	cactaatcagcttcttctatg	60549	-	see also 12112 line
27795	ENDOGL1	NM_005107.1	59	gggttccctcgctttctgagc	60545	-	see also 12112 line
27796	ENDOGL1	NM_005107.1	885	aactagtatatccggaatatot	60565	-	see also 12112 line
27797	ENPP1	NM_006208.1	755	aacatgagacgggtatatccaac	60583	-	see also 4303 line
27798	ENPP1	NM_006208.1	2348	gacacactactcgaaagtatgc	60631	-	see also 4303 line
27799	ENPP2	NM_006209.2	655	ggcccggtgtaccuaaataaaa	60655	-	see also 4304 line
27800	ENPP2	NM_006209.2	531	ttgttccctccattaatcatc	60653	-	see also 12115 line
27801	ENPP3	NM_005021.2	1260	cccgatcagagtcataatata	60767	-	see also 12115 line
27802	ENPP3	NM_005021.2	1262	cgaatccagagtcataatatacc	60769	-	see also 12115 line
27803	ENPP3	NM_005021.2	2179	tactagcaatttggtacotatgt	60800	-	see also 12115 line
27804	FAM12A	NM_006683.3	461	ggcgtagatggatatgttgataa	60828	-	see also 12116 line
27805	FAM12A	NM_006683.3	330	agggagcgaccgatatagaaat	60819	-	see also 12116 line
27806	FAM12A	NM_006683.3	331	ggggagcgaccgatatagaaatg	60820	-	see also 12116 line
27807	FAM12B	NM_022360.2	275	atggatccttcgaaatgcata	60835	-	see also 12117 line
27808	FAM12B	NM_022360.2	235	atggtacaaaatcgagcatatat	60834	-	see also 12117 line
27809	FLJ10094	NM_017993.1	697	accggttttgcgggagattacc	60853	-	see also 7191 line
27810	FLJ10094	NM_017993.1	1786	tcacatacaaacgcttactaaa	60871	-	see also 7191 line
27811	FLJ10252	NM_018040.1	308	gagaaacggaggtgataatg	60891	-	see also 12119 line
27812	FLJ10252	NM_018040.1	1397	atccttatgacaggagagataca	60921	-	see also 12119 line
27813	FLJ10290	NM_018047.1	256	gagtcgcagtcggttcaagaag	60932	-	see also 12120 line
27814	FLJ10290	NM_018047.1	715	ttctaagcgggcttcaacaatg	60948	-	see also 12120 line
27815	FLJ10377	NM_018077.1	566	gggaagatgcgggttttggttt	60969	-	see also 7234 line
27816	FLJ10377	NM_018077.1	468	ttcgaaacctgagcttaagtgt	60965	-	see also 7234 line
27817	FLJ10377	NM_018077.1	2306	aaccagctgtcgaaacataaa	61001	-	see also 7234 line
27818	FLJ10486	NM_018109.2	523	gtcaagcgaaggtcaagtaatc	61013	-	see also 7257 line
27819	FLJ10486	NM_018109.2	267	agcggactgttttaatacatg	61005	-	see also 7257 line
27820	FLJ10634	NM_018163.1	212	agccaggctgcataatgacaagg	61055	-	see also 12123 line
27821	FLJ10634	NM_018163.1	261	ggagagaccagaaacttgatga	61056	-	see also 12123 line
27822	FLJ10891	NM_018260.1	896	taccttgatgcctatagatgca	61062	-	-
27823	FLJ10891	NM_018260.1	674	aggccaaaactcgtatttctaa	61061	-	see also 27822 line
27824	FLJ11016	NM_018301.2	416	tcggagcgtcagcgaattcttg	61071	-	see also 7373 line
27825	FLJ11016	NM_018301.2	1215	aagcactctctcatatcatgt	61094	-	see also 7373 line
27826	FLJ1126	NM_018332.3	449	tgtgaaccccccacagaatcga	61097	-	see also 12125 line
27827	FLJ1142	NM_018338.2	1686	atccaaaagggtcacgattttt	61148	-	see also 12126 line
27828	FLJ1142	NM_018338.2	479	aagcagagccaaactacaactct	61107	-	see also 12126 line
27829	FLJ1175	NM_018349.1	916	agcattcgggtatttttgatca	61204	-	see also 12127 line
27830	FLJ1175	NM_018349.1	915	tagcattcgggtatttttgatc	61203	-	see also 12127 line
27831	FLJ1637	NM_024967.1	1084	cacggagaaacgcatgctaaaaa	61233	-	see also 12128 line
27832	FLJ1637	NM_024967.1	485	atcgtatctgcgaagaattgt	61218	-	see also 12128 line
27833	FLJ1637	NM_024967.1	494	tgcgaagaattgtgtactagt	61221	-	see also 12128 line
27834	FLJ1806	NM_024824.2	461	tcttagcgcggaactgaaaaa	61249	-	see also 12129 line

図46 (続き)

804

27835	FLJ11806	NM_024824.2	296	atggctcatggtgattagata	61242	-	see also 12129 line
27836	FLJ12455	NM_022078.1	101	cgcccaatttcaggagctattt	61315	-	see also 12130 line
27837	FLJ12455	NM_022078.1	653	gctacccctcctggatcatcacc	61322	-	see also 12130 line
27838	FLJ12529	NM_024811.2	395	atccaggtatttcctctatagg	61338	-	see also 8750 line
27839	FLJ12529	NM_024811.2	665	gcccattcccgagattctatga	61343	-	see also 8750 line
27840	FLJ12606	NM_024804.1	1242	gtcgttgagttccctttgtaac	61361	-	see also 12132 line
27841	FLJ12606	NM_024804.1	654	ttgatctgaacgggaacattct	61359	-	see also 12132 line
27842	FLJ12644	NM_023074.2	568	gaaggacacgcgtatgaacacg	61365	-	see also 12133 line
27843	FLJ12644	NM_023074.2	1682	agcttaagctcctagtgaacatgt	61382	-	see also 12133 line
27844	FLJ12998	NM_022764.1	932	cccgcttcagccggtgttaag	61415	-	see also 12134 line
27845	FLJ12998	NM_022764.1	931	cccgcttcagccggtgtttac	61414	-	see also 12134 line
27846	FLJ13590	NM_024840.2	2100	cagacctcaataacacagtc	61439	-	see also 12135 line
27847	FLJ13590	NM_024840.2	1999	atccttgctcagagagtcacagc	61431	-	see also 12135 line
27848	FLJ14451	NM_032786.1	743	gaogtcatgctctatgatata	61446	-	see also 12136 line
27849	FLJ14451	NM_032786.1	741	acgacgtcatgctctatgata	61445	-	see also 12136 line
27850	FLJ14779	NM_032838.2	486	aggggggacatttcaatcaattg	61461	-	see also 12137 line
27851	FLJ14779	NM_032838.2	485	caggggggacatttcaatcaatt	61460	-	see also 12137 line
27852	FLJ20035	NM_017631.3	3952	aaggtatttggtggagtaaat	61531	-	see also 12138 line
27853	FLJ20035	NM_017631.3	4942	gactctcaactgctatctcattt	61554	-	see also 12138 line
27854	FLJ20070	NM_017652.1	806	ggagaagtccttgcttatcacat	61570	-	see also 12139 line
27855	FLJ20070	NM_017652.1	375	aagcagagcagcgtgtatcacat	61568	-	see also 12139 line
27856	FLJ20094	NM_017685.1	149	ctcaaggacagcagactaaaga	61572	-	-
27857	FLJ20171	NM_017691.1	973	ggggatttcgcccagatattcg	61597	-	see also 12140 line
27858	FLJ20171	NM_017691.1	450	gacccgtatattgaggtttaca	61584	-	see also 12140 line
27859	FLJ20249	NM_015590.2	308	tacagataaggagccttcttaag	61605	-	see also 12141 line
27860	FLJ20249	NM_015590.2	872	ggcttggggaattgatatagcaga	61612	-	see also 12141 line
27861	FLJ20273	NM_019027.1	619	cagtcgctgagctcaacaactac	61616	-	see also 12142 line
27862	FLJ20273	NM_019027.1	1334	tggggcccaacaggagactatttg	61617	-	see also 12142 line
27863	FLJ20344	NM_017776.1	297	gtgtccgtgggggtatctagtgc	61625	-	see also 12143 line
27864	FLJ20344	NM_017776.1	294	ctgggtccgtgggggtatctagt	61624	-	see also 12143 line
27865	FLJ20433	NM_017820.2	1451	tcctctggagacccctctatcac	61627	-	see also 12144 line
27866	FLJ20433	NM_017820.2	2270	ggcgcgtgccagccctgtaactgt	61632	-	see also 12144 line
27867	FLJ20557	NM_017879.1	208	cccgtaactgcagagactaaact	61634	-	see also 12145 line
27868	FLJ20557	NM_017879.1	500	tcacattcctgaacagcaatttg	61635	-	see also 12145 line
27869	FLJ21839	NM_021831.3	822	ggcccgtctagagcagctatttc	61657	-	see also 8182 line
27870	FLJ21839	NM_021831.3	2069	gtcgggacacgaagtgttagcaco	61676	-	see also 8182 line
27871	FLJ21918	NM_024939.1	1048	cacatgcgcgtccgctatatga	61693	-	see also 8811 line
27872	FLJ21918	NM_024939.1	753	ttcgaagcccgaggtgtataagc	61691	-	see also 8811 line
27873	FLJ21977	NM_032213.3	951	tgcgatggcgagagagattttc	61718	-	see also 12148 line
27874	FLJ21977	NM_032213.3	952	ggcggatggcgagagattttcc	61719	-	see also 12148 line
27875	FLJ22347	NM_022830.1	114	tgcctctggcagcttactacagc	61723	-	see also 12149 line
27876	FLJ22347	NM_022830.1	1946	agcactggggtgccatatagaac	61735	-	see also 12149 line
27877	FLJ22347	NM_022830.1	1216	accggctggcctgcataactcc	61730	-	see also 12149 line
27878	FLJ22559	NM_024928.3	915	ctcggaccaagtgaattttaaga	61753	-	see also 8810 line

図46 (続き)

805

27879	FLJ22559	NM_024928.3	575	ggagcagtatccgacatacaga	61747	-	see also 8810 line
27880	FLJ22611	NM_032226.1	474	ttcgaactcttgagtagtaaac	61767	-	see also 9123 line
27881	FLJ22611	NM_032226.1	310	ggagactatagaagcatacgaaga	61764	-	see also 9123 line
27882	FLJ23233	NM_024691.2	537	aggactcagtgtaaacattc	61793	-	see also 12152 line
27883	FLJ23233	NM_024691.2	852	ggagactacatctgggaaaaga	61794	-	see also 12152 line
27884	FLJ23506	NM_024833.1	571	ggagtccaccatgtgacatatg	61798	-	see also 12153 line
27885	FLJ23506	NM_024833.1	1221	tagcagtaagttaactctcattc	61802	-	see also 12153 line
27886	FLJ25078	NM_152485.2	929	caggccctgaggagacattctaac	61814	-	see also 12154 line
27887	FLJ25078	NM_152485.2	973	accgattaggagcactgaatga	61815	-	see also 12154 line
27888	FLJ25344	NM_182512.1	130	ccctactcaggagcaattgta	61816	-	-
27889	FLJ30594	NM_153011.1	568	gggggtaccctcctaacttaag	61820	-	see also 12155 line
27890	FLJ30594	NM_153011.1	567	tggggttaacctcctaacttaa	61819	-	see also 12155 line
27891	FLJ30791	NM_144694.1	1382	cagaatgcacacctagttcaaca	61835	-	see also 12156 line
27892	FLJ30791	NM_144694.1	636	ggacatctgtacagtaattgatg	61827	-	see also 12156 line
27893	FLJ30921	NM_152360.2	623	tacatagaagtcaccacttata	61837	-	see also 12157 line
27894	FLJ30921	NM_152360.2	596	ttggatttacagtgtagataat	61836	-	see also 12157 line
27895	FLJ30927	NM_144690.1	1626	cagcagttacccttactactaaca	61866	-	see also 12158 line
27896	FLJ30927	NM_144690.1	706	aaggaaactccttaataatca	61852	-	see also 12158 line
27897	FLJ30932	NM_144693.1	470	cactagggttcgtgttaataa	61868	-	see also 12159 line
27898	FLJ30932	NM_144693.1	472	ctcactagtggttcgtgttaata	61867	-	see also 12159 line
27899	FLJ30932	NM_144693.1	958	acgttttccacacagtgtaac	61876	-	see also 12159 line
27900	FLJ31030	NM_152478.1	1276	tagccatctgggatacctaattg	61903	-	see also 12160 line
27901	FLJ31030	NM_152478.1	419	tgccctgtggagtagtattt	61882	-	see also 12160 line
27902	FLJ31100	NM_173631.2	607	aggaagacccagatttgaaga	61909	-	see also 12161 line
27903	FLJ31100	NM_173631.2	610	aagaccgacatttgaagaacc	61910	-	see also 12161 line
27904	FLJ31139	NM_173657.1	384	acgattacccgagataactaga	61923	-	see also 12162 line
27905	FLJ31139	NM_173657.1	336	ttcggatattccagtagaattta	61920	-	see also 12162 line
27906	FLJ31295	NM_152320.1	790	tcacgctgtctgaagatactgt	61949	-	see also 12163 line
27907	FLJ31295	NM_152320.1	745	gggggggataccctgaactaga	61945	-	see also 12163 line
27908	FLJ31875	NM_182531.1	569	ctcagtagaatggcgacttaaaa	61962	-	see also 12164 line
27909	FLJ31875	NM_182531.1	1539	ctgtgcgtgtggccttactaga	61984	-	see also 12164 line
27910	FLJ31986	NM_152476.1	923	ggggcaaacacgtctgaatgatt	61999	-	see also 12165 line
27911	FLJ31986	NM_152476.1	898	aagaccaacatgagtagtcaaaa	61996	-	see also 12165 line
27912	FLJ32130	NM_152458.4	1259	tcggcaacttccagatatattt	62034	-	see also 12166 line
27913	FLJ32130	NM_152458.4	1258	ttcgggcaacttccagatatatt	62033	-	see also 12166 line
27914	FLJ32191	NM_144689.3	1830	gcctttgcggtggcttactact	62051	-	see also 12167 line
27915	FLJ32191	NM_144689.3	1835	tgccgtggcttactactatcc	62052	-	see also 12167 line
27916	FLJ32191	NM_144689.3	573	ttcaaccgacatacttactatc	62045	-	see also 12167 line
27917	FLJ32932	NM_152909.2	1126	cagctccacattgttagacatc	62062	-	see also 12168 line
27918	FLJ32932	NM_152909.2	640	ttccagagggagattgagatcc	62058	-	see also 12168 line
27919	FLJ33071	NM_152457.1	861	atctatcccgcacatgaatagc	62076	-	see also 12169 line
27920	FLJ33071	NM_152457.1	677	ttcagcagattcattacattagc	62073	-	see also 12169 line
27921	FLJ33071	NM_152457.1	846	ttcggcagacatctcatctacc	62075	-	see also 12169 line
27922	FLJ33979	NM_152636.1	869	tgccagcatcgttcagataact	62090	-	see also 12170 line

図 46 (続き)

806

27923	FLJ33979	NM_152636.1	905	ccagtgcccaaacctcttatt	62094	-	see also 12170 line
27924	FLJ34817	NM_152303.1	1015	atccattcagctcttaaacacc	62116	-	see also 12171 line
27925	FLJ34817	NM_152303.1	587	ttctcatggaagggtatttact	62098	-	see also 12171 line
27926	FLJ34917	NM_153263.1	1738	ttctaccctgaggttaacttct	62137	-	see also 12172 line
27927	FLJ34917	NM_153263.1	2101	caccagaaggtacataaacaga	62142	-	see also 12172 line
27928	FLJ34917	NM_153263.1	1912	caccgaccagccctcattcaaca	62139	-	see also 12172 line
27929	FLJ35863	NM_152604.1	893	atgttactcggcatctgaaatt	62148	-	see also 12173 line
27930	FLJ35863	NM_152604.1	562	aggagataattgggacttcaaaa	62146	-	see also 12173 line
27931	FLJ36040	NM_173530.1	1742	tgctacattacagatgggaatga	62160	-	see also 12174 line
27932	FLJ36040	NM_173530.1	1732	ggaattactgcgtaccttaca	62158	-	see also 12174 line
27933	FLJ36754	NM_173829.2	244	ttctccgagtagaccttaaaagg	62161	-	see also 12175 line
27934	FLJ36754	NM_173829.2	577	agcattcttacacctaatagt	62163	-	see also 12175 line
27935	FLJ36991	NM_152477.1	955	tggtcgtacatcagaacttattc	62176	-	see also 12176 line
27936	FLJ36991	NM_152477.1	502	cagggtgagaaattttacaaa	62168	-	see also 12176 line
27937	FLJ38499	NM_173797.2	1239	tggtgcaagtcaccatcagataaa	62207	-	see also 12177 line
27938	FLJ38499	NM_173797.2	1214	tcggttagtctggtgattgaaga	62204	-	see also 12177 line
27939	FLJ90396	NM_153358.1	418	aagactgcggagagtaaaaccata	62227	-	see also 12178 line
27940	FLJ90396	NM_153358.1	505	cacactggatcagagctatttga	62228	-	see also 12178 line
27941	FLJ90396	NM_153358.1	1499	gtcgttaccgaacacacataaaga	62238	-	see also 12178 line
27942	FLJ90430	NM_178558.2	1723	atgcagcagataatttgaataca	62246	-	see also 12179 line
27943	FLJ90430	NM_178558.2	1574	tgccctgcaactcttctaataca	62243	-	see also 12179 line
27944	FLJ90798	NM_153367.1	681	ggcctgcttggcaggtacaaagt	62248	-	see also 12180 line
27945	FLJ90798	NM_153367.1	660	gactccataccagggcaaaaagc	62247	-	see also 12180 line
27946	GPR65	NM_003608.2	1350	atcacggttcattacaagttt	62271	-	see also 12181 line
27947	HEL308	NM_133636.1	3214	gggtgcagcaaaaacagttataca	62366	-	see also 12182 line
27949	HEL308	NM_133636.1	3213	agggtcggcagcaaaaacagttatac	62365	-	see also 12182 line
27950	HEL308	NM_133636.1	2939	aacgtgtcaaacaggctatatct	62354	-	see also 12182 line
27951	HELIC1	NM_006828.1	5316	ttccgacgtcttattcatgaatcc	62530	-	see also 12183 line
27952	HELIC1	NM_006828.1	6168	ggctcgtgggtagcttatttga	62551	-	see also 12183 line
27953	HELZ	NM_014877.1	5365	ttcgtccctcagcttagaagagt	62716	-	see also 12184 line
27954	HELZ	NM_014877.1	3843	tgccctataacatgaacctatta	62680	-	see also 12184 line
27955	HELZ	NM_014877.1	4822	ggggaggctttagatogtatataca	62700	-	see also 12184 line
27956	HNRNPG-	NM_014469.2	303	cgggcaagtcctcgtggtgaagg	62726	-	see also 12185 line
27957	HNRNPG-	NM_014469.2	1063	ggcagttacagcagcagttatgg	62728	-	see also 12185 line
27958	HRB2	NM_007043.5	48	aggcgtcggaaaaaggtgaatttc	62729	-	see also 12186 line
27959	HRB2	NM_007043.5	626	aagtagtcttgatatactatgaag	62744	-	see also 12186 line
27960	HSAG947	NM_022089.1	91	ggcagtaggggacatcaatagatc	62751	-	see also 12187 line
27961	HSAG947	NM_022089.1	287	gcggaaacactcgttatcgaat	62755	-	see also 12187 line
27962	HSPC055	NM_014153.2	352	ggcgtttatcgggaaacattg	62787	-	see also 5514 line
27963	HSPC055	NM_014153.2	2111	aagttcggtagtgcgtgttttaagg	62840	-	see also 5514 line
27964	HTF9C	NM_022727.3	1040	ccagcagcagctgagatcgtaat	62864	-	see also 12189 line
27965	HTF9C	NM_022727.3	1042	cagcagcagctgagatcgtaat	62865	-	see also 12189 line
27966	HZF12	NM_033204.2	229	tggtcctcgtcgggaatccaatgg	62877	-	see also 12190 line

27967	HZF12	NM_033204.2	574	gtggtgacagcgacagtaaca	62883	-	see also 12190 line
27968	IMP-1	NM_006546.2	1061	ctgctctccgttgtaagatga	62902	-	see also 12191 line
27969	IMP-1	NM_006546.2	1316	caggcccgagcaggaataatga	62910	-	see also 12191 line
27970	KARS	NM_005548.1	970	tggcatgacaggggtttatgaaa	62947	-	see also 3882 line
27971	KARS	NM_005548.1	971	ggcatcgaccgggtttatgaaat	62948	-	see also 3882 line
27972	KIAA0052	NM_015360.2	1162	ggccactcattgcaaacactaca	63005	-	see also 6389 line
27973	KIAA0052	NM_015360.2	1886	ggctcgcgtatcctctaataag	63022	-	see also 6389 line
27974	KIAA0082	NM_015050.1	1797	ttctcgcaccataatcgaaagt	63093	-	see also 6209 line
27975	KIAA0082	NM_015050.1	390	ttctcgtattccactataataa	63072	-	see also 6209 line
27976	KIAA0082	NM_015050.1	1563	cacggattcgcagctgaacttgg	63091	-	see also 6209 line
27977	KIAA0150	NM_015117.1	1314	cccgctctcggcttacaagaatga	63100	-	see also 12195 line
27978	KIAA0150	NM_015117.1	1513	gtcacacagcaccgactatgtcg	63102	-	see also 12195 line
27979	KIAA0663	NM_014827.1	1328	aacgtggagaattgcaaacataaa	63108	-	see also 12196 line
27980	KIAA1055	NM_015079.2	779	ggacataattgggtcgtacaaaaa	63116	-	see also 12197 line
27981	KIAA1055	NM_015079.2	2531	tacttaactcgcactatccttga	63146	-	see also 12197 line
27982	KIAA1285	NM_015694.1	348	cgcacagatgggactcgtgattaag	63147	-	see also 12198 line
27983	KIAA1285	NM_015694.1	547	cagcaggttcagcgaactgaagc	63148	-	see also 12198 line
27984	KIAA1582	NM_018996.2	2295	acgtccattcgcgcgaataatgg	63198	-	see also 12199 line
27985	KIAA1582	NM_018996.2	3707	agcaagttgcgcgcacatcact	63223	-	see also 12199 line
27986	KIAA1582	NM_018996.2	4176	ctctatggccggtagcatttaa	63227	-	see also 12199 line
27987	KIAA1847	NM_032527.2	604	gggcactcgcgagatcacaaag	63241	-	see also 12200 line
27988	KIAA1847	NM_032527.2	897	atgtggacaacggctactacaca	63243	-	see also 12200 line
27989	LEREPO4	NM_018471.1	1095	gtgctggaaggtttgaattt	63265	-	see also 12201 line
27990	LEREPO4	NM_018471.1	1091	atcagtggtcgtgaagtggttga	63263	-	see also 12201 line
27991	LGALS12	NM_033101.2	451	ttctatgtcacagcagattttg	63276	-	see also 12202 line
27992	LGALS12	NM_033101.2	450	ttcttatgtcacagcagattttt	63275	-	see also 12202 line
27993	LGALS12	NM_033101.2	336	ctcctggaacaggagctacagt	63273	-	see also 12202 line
27994	LGP2	NM_024119.1	1658	tacgggtttgtagcaactgaagg	63300	-	see also 12203 line
27995	LGP2	NM_024119.1	1321	cagccctcggggtatcacttca	63296	-	see also 12203 line
27996	LKAP	NM_014647.1	3222	agggcacccgtcctttattgagc	63391	-	see also 5821 line
27997	LKAP	NM_014647.1	3027	acgacggctcctccacgaattgc	63384	-	see also 5821 line
27998	LOC11325	NM_052879.3	2260	caggagtgactcgcactaatgg	63513	-	see also 12205 line
27999	LOC11325	NM_052879.3	2155	agggttagtaaggattattctgg	63509	-	see also 12205 line
28000	LOC11550	NM_138447.1	921	ggcgagtgccctatgtttgtga	63523	-	see also 12206 line
28001	LOC11550	NM_138447.1	822	aagtgccgccagaaatctaaaaaa	63522	-	see also 12206 line
28002	LOC11550	NM_138447.1	723	cccgagaaccccgactgattccc	63518	-	see also 12206 line
28003	LOC12424	NM_144604.2	1154	aagacgaacgggaattgacaaa	63539	-	see also 12208 line
28004	LOC12424	NM_144604.2	1242	ggcttaacgacacctattatg	63542	-	see also 12208 line
28005	LOC12629	NM_173480.1	1670	atccacgaatgtcagtcatact	63575	-	see also 12209 line
28006	LOC12629	NM_173480.1	1674	caggaatcagtcatactcaaa	63577	-	see also 12209 line
28007	LOC14654	NM_145271.2	504	acgggcacagccaccacaaatg	63581	-	see also 12210 line
28008	LOC14783	NM_145276.1	1535	tacggagatgggcccgaataaat	63586	-	see also 12211 line
28009	LOC14783	NM_145276.1	458	tagctcattcgaagatattg	63582	-	see also 12211 line
28010	LOC16265	NM_145287.1	567	aaccatgtatttcctatgaataa	63593	-	see also 12212 line

808

図46 (続き)

28011	LOC16265	NM_145287.1	883	atgtataatagtttagtcaat	63597	-	see also 12212 line	-
28012	LOC16322		1665	tcctaagccttattaaacaaa	63600	-	transcription regulat	-
28013	LOC16927	NM_173539.1	553	ttcagtgactgtgtatctttaa	63609	-	see also 12213 line	-
28014	LOC16927	NM_173539.1	508	tacatgagaacgaacacattgt	63607	-	see also 12213 line	-
28015	LOC16927	NM_173539.1	561	ctgttatctttaaataacaca	63611	-	see also 12213 line	-
28016	LOC17026	NM_173798.2	1500	cacacaatccgtgttgatttg	63643	-	see also 12214 line	-
28017	LOC17026	NM_173798.2	777	caggcgacacaacctaacctaag	63629	-	see also 12214 line	-
28018	LOC20151	NM_173548.1	511	aggatgtgacggatattttcttc	63648	-	see also 12215 line	-
28019	LOC20151	NM_173548.1	1460	gaoccggtcaggcctctatcagc	63653	-	see also 12215 line	-
28020	LOC22099	NM_145312.2	429	caacacatgcagtcggaggattact	63654	-	see also 12216 line	-
28021	LOC22099	NM_145312.2	678	atgtggatgcctttatgaaca	63658	-	see also 12216 line	-
28022	LOC28607	NM_173831.2	594	accacatgctggcgagaagagc	63667	-	see also 12217 line	-
28023	LOC28607	NM_173831.2	908	gaccttcgggtgggcttcaaac	63669	-	see also 12217 line	-
28024	LOC28607	NM_173831.2	406	tgctgctctgggattttcgagc	63666	-	see also 12217 line	-
28025	LOC55954	NM_019103.1	417	agccaggagtggtactatgatg	63670	-	-	-
28026	LOC58902	NM_020143.2	651	gtgaacacggacaagatagtttt	63679	-	see also 7765 line	-
28027	LOC58902	NM_020143.2	653	gacacggacaagatagtttgg	63680	-	see also 7765 line	-
28028	LOC58931	NM_020175.1	132	ggcattatgggtcaatcctca	63682	-	see also 12219 line	-
28029	LOC58931	NM_020175.1	1089	gtcagatgggcccactactcaac	63687	-	see also 12219 line	-
28030	LOC65243	NM_023070.1	1474	agcgttttccagattagacac	63714	-	see also 12220 line	-
28031	LOC65243	NM_023070.1	943	aggccaagagtcataatagattg	63702	-	see also 12220 line	-
28032	LOC81691	NM_030941.1	1782	ggccagtcagcgaatgaacttt	63764	-	see also 12221 line	-
28033	LOC81691	NM_030941.1	1069	aagatgtacagaggcaggttaaa	63743	-	see also 12221 line	-
28034	LOC81691	NM_030941.1	1022	ttcgggaatcacgagaagatgc	63737	-	see also 12221 line	-
28035	LOC84524	NM_032494.1	149	cacggactgtacgaagaatcg	63770	-	see also 12222 line	-
28036	LOC84524	NM_032494.1	153	gactctgacgaagaatcgtgga	63771	-	see also 12222 line	-
28037	LOC84524	NM_032494.1	159	gacgaagaatgatgatgaat	63772	-	see also 12222 line	-
28038	LOC84549	NM_032509.2	787	aggcccttagtgcgaacacaaa	63817	-	see also 9223 line	-
28039	LOC90233	NM_138347.2	1337	ttcaatctcattgcacatagaag	63833	-	see also 12223 line	-
28040	LOC90233	NM_138347.2	427	aactcaactcagtgagattaaga	63820	-	see also 12223 line	-
28041	LOC90462	NM_183238.1	1112	cagtaggaagtcgcagcttaaaa	63855	-	see also 12224 line	-
28042	LOC90462	NM_183238.1	1119	aagtcgcagcttaaaaagacatca	63857	-	see also 12224 line	-
28043	LOC91120	NM_033196.1	1341	taactgcctcaaacgctataat	63884	-	see also 12225 line	-
28044	LOC91120	NM_033196.1	804	gtgttcacctttgttagacata	63882	-	see also 12225 line	-
28045	LOC92906	NM_138394.2	979	tgcaaggccaactcgttaaatg	63908	-	see also 9611 line	-
28046	LOC92906	NM_138394.2	1791	cccttaacgacgaactaat	63942	-	see also 9611 line	-
28047	MADP-1	NM_033114.2	255	atgactgtaccggatttttc	63950	-	see also 9361 line	-
28048	MADP-1	NM_033114.2	755	gtccctcaaatcagatgattc	63963	-	see also 9361 line	-
28049	MAN1	NM_014319.3	1077	cagtgttaacgtaagaactga	63980	-	see also 12228 line	-
28050	MAN1	NM_014319.3	1289	atcatacggctccaatcaaac	63988	-	see also 12228 line	-
28051	MBNL2	NM_005757.3	1138	gtccgcgtataggacaaatcag	64052	-	see also 4006 line	-
28052	MBNL2	NM_005757.3	1151	gacaaatcaggctattgcttg	64054	-	see also 4006 line	-
28053	MBNL3	NM_018388.2	329	ggcggaacaatctgattcaaca	64076	-	see also 12230 line	-

809

図46 (続き)

28054	MBNL3	NM_018388.2	1018	ggcaccgcctcaaatatttgc	64097	-	see also 12230 line
28055	MDA5	NM_022168.2	3070	aartgtgcggactatacaataa	64164	-	see also 8322 line
28056	MDA5	NM_022168.2	3067	aagaagtgtgcggactatcaaat	64163	-	see also 8322 line
28057	MGC10433	NM_024321.3	1385	cgggccatcggtgagatgaatgg	64175	-	see also 12232 line
28058	MGC10433	NM_024321.3	1282	ccgttccattcttcttaagg	64174	-	see also 12232 line
28059	MGC10520	NM_030580.2	849	aacggttacacaggtcaaaaaa	64181	-	see also 12233 line
28060	MGC10520	NM_030580.2	850	agcgtgtacacaggtcaaaaaa	64182	-	see also 12233 line
28061	MGC10715	NM_024325.4	1152	aacctgtgcagctagacaaagg	64198	-	see also 12234 line
28062	MGC10715	NM_024325.4	1361	ctcagatgagaagccttatgtgt	64202	-	see also 12234 line
28063	MGC10871	NM_031492.2	698	tggagcactcgactactataagc	64213	-	see also 12235 line
28064	MGC10871	NM_031492.2	592	cggtctggtgtggcgaacttact	64208	-	see also 12235 line
28065	MGC12466	NM_033213.1	1309	agcatgaagaagccttatatgg	64225	-	see also 12236 line
28066	MGC12466	NM_033213.1	959	cacttacttgggaatacatgaaa	64221	-	see also 12236 line
28067	MGC13105	NM_032497.1	2153	tactcgtccacatatattttc	64256	-	see also 12237 line
28068	MGC13105	NM_032497.1	1432	ctcatgtagagtggttaactata	64246	-	see also 12237 line
28069	MGC13105	NM_032497.1	1989	tactcctgcaccttagtcaaca	64293	-	see also 12237 line
28070	MGC17986	NM_153608.1	707	tactgtcttaaacagatagtcaaa	64287	-	see also 12238 line
28071	MGC17986	NM_153608.1	1329	gtcattcggagtcctcaaaata	64280	-	see also 12238 line
28072	MGC17986	NM_153608.1	1333	ttcgggagtgctcctcaaatataca	64281	-	see also 12238 line
28073	MGC26914	NM_144976.1	769	cgcccaagttatttcaatataca	64291	-	see also 12240 line
28074	MGC26914	NM_144976.1	1449	aaggattagaacaacatgatgac	64293	-	see also 12240 line
28075	MGC26914	NM_144976.1	767	atgcgcccaagttatttcaagata	64289	-	see also 12240 line
28076	MGC27016	NM_144979.2	790	aacctatgcagagtgtaaatgtc	64310	-	see also 12241 line
28077	MGC27016	NM_144979.2	1656	atgttgacacagcgtctgtatc	64353	-	see also 12241 line
28078	MGC2734	NM_033117.2	175	tgcaggaaggacacccgattatgg	64356	-	see also 9368 line
28079	MGC2734	NM_033117.2	505	agcctactcagcttaoctaagt	64365	-	see also 9368 line
28080	MGC32104	NM_144684.1	1597	ggcctttagtcgcatttcaatcc	64378	-	see also 12242 line
28081	MGC32104	NM_144684.1	1439	cacaagtatacctaacaacatca	64376	-	see also 12242 line
28082	MGC33637	NM_152596.2	1695	aagatcgattcctggataagtc	64416	-	see also 12243 line
28083	MGC33637	NM_152596.2	563	ttgcgcagtttacttatttgaca	64389	-	see also 12243 line
28084	MGC4054	NM_024341.1	1093	tacggggaggagtgcttaattgtat	64429	-	see also 12244 line
28085	MGC4054	NM_024341.1	679	agcaaacactcaacgaatgaatc	64425	-	see also 12244 line
28086	MGC41917	NM_153231.2	1044	accacccggtctactttttattgg	64443	-	see also 12245 line
28087	MGC41917	NM_153231.2	726	gggaaagacgccttgattcagtc	64442	-	see also 12245 line
28088	MGC42415	NM_153363.1	561	tcgcgcagagctagggcataaag	64450	-	see also 12246 line
28089	MGC42415	NM_153363.1	1357	ttctctcaactcttaactactca	64452	-	see also 12246 line
28090	MGC43537	NM_178544.2	2186	gacgtttagtcggcactatcactc	64475	-	see also 12247 line
28091	MGC43537	NM_178544.2	735	cagatgggatcggttagtcaaat	64465	-	see also 12247 line
28092	MGC4400	NM_032679.1	1114	ggcgaagtgcgcgcctcaataga	64495	-	see also 12248 line
28093	MGC4400	NM_032679.1	1116	cggaaagtcgcgcctcaatagaca	64496	-	see also 12248 line
28094	MGC45380	NM_133466.1	774	gggtgcgcacacagcttactttt	64513	-	see also 12249 line
28095	MGC45380	NM_133466.1	776	gtgcgcacacagcttacttttca	64514	-	see also 12249 line
28096	MGC45586	NM_152603.2	752	aaggaggagccttgattacacata	64540	-	see also 12250 line
28097	MGC45586	NM_152603.2	355	aacaccagagaagtatttctaga	64530	-	see also 12250 line

図46 (続き)

810

28098	MGC48625	NM_182609.1	473	agcctgtgggactatgatgtaa	64557	-	see also 12251 line
28099	MGC48625	NM_182609.1	383	taccatctgtgtatataaag	64552	-	see also 12251 line
28100	MK167IP	NM_032390.3	67	ggcccaatctgtctgctaattcc	64565	-	see also 12252 line
28101	MK167IP	NM_032390.3	134	agcgataaccacagaaataaa	64567	-	see also 12252 line
28102	MKRN1	NM_013446.2	401	ctctgacagtcctgatatgttag	64584	-	- nucleic acid binding -
28103	MKRN1	NM_013446.2	399	ctctgtcacagtcogtatagt	64583	-	see also 28102 line
28104	MKRN2	NM_014160.3	423	cagccgagcatggtgagtaacc	64591	-	see also 12253 line
28105	MKRN2	NM_014160.3	197	tggaaactgggtgagatagacc	64586	-	see also 12253 line
28106	MKRN3	NM_005664.1	1424	agcgatactggcatcaactgt	64615	-	see also 12254 line
28107	MKRN3	NM_005664.1	831	tgcggtttgcattatgcttcc	64607	-	see also 12254 line
28108	MNAB	NM_018835.1	1085	aaccacagccggaaatgtcattt	64656	-	see also 12255 line
28109	MNAB	NM_018835.1	1188	cagctaactccagtagtaactga	64659	-	see also 12255 line
28110	MSI2	NM_138962.2	269	ctcacagatagccttagagact	64709	-	see also 9643 line
28111	MSI2	NM_138962.2	274	cagatagccttagagactattt	64710	-	see also 9643 line
28112	MYEOV	NM_138768.1	1304	atcgagctgcccactgactataaa	64722	-	see also 12257 line
28113	MYEOV	NM_138768.1	1199	tgggctctccatggaaattatgt	64721	-	see also 12257 line
28114	NARS	NM_004539.2	423	ttggtcggttagaaggatataga	64736	-	see also 3095 line
28115	NARS	NM_004539.2	518	ttgcgagatggtacaggttatct	64740	-	see also 3095 line
28116	NPM2	NM_182795.1	754	cagggcgagcgtggcctaagaaaa	64773	-	see also 12259 line
28117	NPM2	NM_182795.1	583	ctcagtgccaggaaacgthtga	64771	-	see also 12259 line
28118	NPM2	NM_182795.1	756	ggcgagcgtggcctaagaaaaaa	64774	-	see also 12259 line
28119	NPM3	NM_006993.1	101	ccgggtcaactatgacacagtttt	64777	-	see also 12260 line
28120	NPM3	NM_006993.1	152	ccgctcttcacctttaagtag	64779	-	see also 12260 line
28121	NUPL2	NM_007342.1	1350	cagcatcattgcaacagataatg	64802	-	see also 12261 line
28122	NUPL2	NM_007342.1	1384	ccagagataaaactaacagtaga	64805	-	see also 12261 line
28123	PCTAIRE2	NM_014290.1	2615	ttgctcggactgtagcattaagg	64876	-	see also 5597 line
28124	BP	NM_014290.1	515	cggggcgtcaagtaattgtcaga	64816	-	see also 5597 line
28125	PDIP46	NM_032311.3	1076	atgccatcacccgcataaagaag	64901	-	see also 9152 line
28126	PDIP46	NM_032311.3	1073	acgatgccatcacccgcataaag	64900	-	see also 9152 line
28127	PERC	NM_133263.2	3007	gactacgattccaattcagaaga	64930	-	see also 12264 line
28128	PERC	NM_133263.2	895	caggcgatgggtgcaactctacag	64915	-	see also 12264 line
28129	PINX1	NM_017884.3	489	ctccaaaaaccgtgttcaactata	64943	-	see also 7170 line
28130	PINX1	NM_017884.3	195	ctgggagtaagcagattccaagt	64932	-	see also 7170 line
28131	PNMA3	NM_013364.1	397	ctcgggtgggacacccaattgttc	64962	-	see also 12266 line
28132	PNMA3	NM_013364.1	395	tctcgggtgggacaccaattgt	64961	-	see also 12266 line
28133	PNMA3	NM_013364.1	368	ggcgggccctgtgcagatagaac	64959	-	see also 12266 line
28134	PPIL4	NM_139126.2	1375	agggatggccattatagtaataag	65012	-	see also 9660 line
28135	PPIL4	NM_139126.2	473	ttgtaccatacaggtatcacagg	64993	-	see also 9660 line
28136	PPPIR10	NM_002714.2	1989	tagtcaggagcogatatatocagg	65041	-	see also 12268 line
28137	PPPIR10	NM_002714.2	1614	ccgggtcccccgttgaagtcc	65031	-	see also 12268 line
28138	PRC	NM_015062.3	4585	cggcggtacagctcttatgttgc	65087	-	see also 12269 line
28139	PRC	NM_015062.3	4586	ggcggtacagctcttatgttca	65088	-	see also 12269 line

図46 (続き)

811

28140	PRR3	NM_025263.1	861	aagctggtcttattatcaagaata	65102	-	see also 12270 line
28141	PRR3	NM_025263.1	845	acctgaaggctcaaaagctgg	65101	-	see also 12270 line
28142	PSPC1	NM_018282.1	368	ggggttactatgacatcaaga	65105	-	see also 7362 line
28143	PSPC1	NM_018282.1	759	cgggtagagctacaggaagaagg	65115	-	see also 7362 line
28144	PTBP2	NM_021190.1	414	ttcgtaaccaacaatatatc	65146	-	see also 8123 line
28145	PTBP2	NM_021190.1	225	ctcgttacttactatcogaaga	65143	-	see also 8123 line
28146	PTBP2	NM_021190.1	125	ctcagtagtcogaacttaatat	65136	-	see also 8123 line
28147	R3HDM	NM_015361.2	2535	gagtggtcattccctatacttca	65250	-	see also 6393 line
28148	R3HDM	NM_015361.2	1686	ggcgaacctgtgtctatccaact	65230	-	see also 6393 line
28149	RAD52B	NM_145654.2	320	ttcgtcttgacacagacataag	65279	-	see also 12273 line
28150	RAD52B	NM_145654.2	122	cagccgaggtcttgcattctct	65270	-	see also 12273 line
28151	RAVER1	NM_133452.1	29	ggcggacgtgtcgttactcoac	65293	-	see also 12274 line
28152	RAVER1	NM_133452.1	260	cagtgactatgagctcaataact	65295	-	see also 12274 line
28153	RBAK	NM_021163.2	1836	tcgggtgtcatacctcactatc	65316	-	see also 12275 line
28154	RBAK	NM_021163.2	816	aaggcaagctgtgtgtatcaata	65300	-	see also 12275 line
28155	RBM14	NM_006328.1	2017	caogctattcgggtctctataat	65347	-	see also 4430 line
28156	RBM14	NM_006328.1	2024	ttcgggtctctataatgattacc	65350	-	see also 4430 line
28157	RECQL4	NM_004260.1	2071	ctgctgaaggcaaacgttttca	65357	-	see also 12277 line
28158	RECQL4	NM_004260.1	2198	gaggtctgtgcccccaaacacca	65359	-	see also 12277 line
28159	RECQL5	NM_004259.3	2828	agogaacaggcacccttgaatcc	65386	-	see also 12278 line
28160	RECQL5	NM_004259.3	268	tcgaccactgtgtagtataag	65365	-	see also 12278 line
28161	RIG-I	NM_014314.2	1550	atcaggattagcgacaaattta	65427	-	see also 5617 line
28162	RIG-I	NM_014314.2	1297	aacacccgtacataatgatcatg	65417	-	see also 5617 line
28163	RIG-I	NM_014314.2	1294	aacaacacccgtacaatgatc	65416	-	see also 5617 line
28164	RNASE2	NM_002934.1	330	atgacctgtctctagttaacaaac	65473	-	see also 12280 line
28165	RNASE2	NM_002934.1	452	gacacacgaacacatgttctata	65475	-	see also 12280 line
28166	RNASE3	NM_002935.1	226	cgggcaattaaacaattatcgtg	65481	-	see also 12281 line
28167	RNASE3	NM_002935.1	223	atcgagggaattaaacaattatog	65480	-	see also 12281 line
28168	RNASE4	NM_002937.3	712	atcgctactgaactgtatgatg	65492	-	see also 12282 line
28169	RNASE4	NM_002937.3	713	tcgctactgaactgtatgatgc	65493	-	see also 12282 line
28170	RNASE6	NM_005615.2	718	ttcgtgtacacttagatagtatt	65506	-	see also 12283 line
28171	RNASE6	NM_005615.2	719	tcctgtacacttagatagtttc	65507	-	see also 12283 line
28172	RNASE7	NM_032572.2	630	ctgtgaagctctcccaaaaaagg	65508	-	pancreatic ribonuclease
28173	RNASE8	NM_138331.1	156	agccatgagcatcatcaataagt	65511	-	-
28174	RNASE8	NM_138331.1	153	ctcagccatgagcatcatcaata	65509	-	see also 12284 line
28175	RNPC4	NM_018107.3	1030	ggccgctctaaagttatgtttt	65538	-	see also 12285 line
28176	RNPC4	NM_018107.3	374	atcggtatagacagagaaatagt	65517	-	see also 12285 line
28177	RNPC6	NM_153020.1	625	tcgacacagacgaatgaatag	65548	-	see also 12286 line
28178	RNPC6	NM_153020.1	144	aaggatcccaatcccatcatga	65542	-	see also 12286 line
28179	RoXan	NM_017590.4	577	cgcgaaggcacggtctcattga	65553	-	see also 12287 line
28180	RoXan	NM_017590.4	713	gggttcgaagggcgtataagagg	65558	-	see also 12287 line
28181	RSN	NM_002956.2	1142	gcccagtcggacagacattga	65586	-	see also 1994 line
28182	RSN	NM_002956.2	703	ctccgatcagcaaccttcaaaa	65581	-	see also 1994 line

812

28183	RY1	NM_006857.1	442	cagtcacatgaatgaaaagggtgg	65647	-	see also 4804 line
28184	SART3	NM_014706.2	1718	accgatgattcgtgtcaatga	65677	-	see also 12290 line
28185	SART3	NM_014706.2	1410	gtgatccaagtgcgtgattatg	65669	-	see also 12290 line
28186	SBNO1	NM_018183.2	2924	aacagtgaggacgtactcataga	65788	-	see also 12291 line
28187	SBNO1	NM_018183.2	2904	gagcgctgatagagaattcaaac	65786	-	see also 12291 line
28188	SBZF3	NM_020394.2	251	tgtgaggatagcttcaatgac	65845	-	see also 12292 line
28189	SBZF3	NM_020394.2	478	ttgagaaataacgttaaggaat	65853	-	see also 12292 line
28190	SEC8	NM_021807.2	739	ctctccgaataatccttgatccc	65864	-	see also 8173 line
28191	SEC8	NM_021807.2	1889	tgcagcttacaggaggattgtcc	65891	-	see also 8173 line
28192	SEOP43	NM_017846.3	102	gaccgtaatgagagtcanaatta	65902	-	see also 12293 line
28193	SEOP43	NM_017846.3	418	ggcgtgtctaagggttatgttt	65914	-	see also 12293 line
28194	SEOP43	NM_017846.3	237	cacacctgcgaacagctttaaac	65909	-	see also 12293 line
28195	SFRS12	NM_139168.1	1639	aacgttcaacgtctatgagaaag	65948	-	see also 9672 line
28196	SFRS12	NM_139168.1	993	agggtgatagccccataatagatc	65939	-	see also 9672 line
28197	SHARP	NM_015001.2	5912	atgtaaaggagcgtctatgcaacc	66090	-	see also 6175 line
28198	SHARP	NM_015001.2	9754	taccgactgcaccctactactgt	66133	-	see also 6175 line
28199	SIABBP1	NM_014281.3	1658	caggagcgttttgataacagtga	66154	-	see also 5589 line
28200	SIABBP1	NM_014281.3	407	taoetggcctctatctactatga	66148	-	see also 5589 line
28201	SIABBP1	NM_014281.3	1652	taccacacaggagcgttttgataa	66152	-	see also 5589 line
28202	SLM1	NM_152688.1	1102	ggctacgggggtgaatatatga	66158	-	see also 12297 line
28203	SLM1	NM_152688.1	1123	gaccagacctatgagacttatga	66160	-	see also 12297 line
28204	SND1	NM_014390.1	1360	ctggtgccctgtatgacattcc	66191	-	see also 5650 line
28205	SND1	NM_014390.1	274	ctctoagggtgcgccatcatgt	66162	-	see also 5650 line
28206	SPAG7	NM_004890.1	844	gtcacccgttggagcgttgtatg	66227	-	see also 3392 line
28207	SPAG7	NM_004890.1	239	ggagaggacatactacatgatgt	66218	-	see also 3392 line
28208	SPF45	NM_032905.3	354	ctcagatgaoccgcaaatgttgg	66232	-	see also 9342 line
28209	SPF45	NM_032905.3	460	gcagaaatgacccctatgttcc	66234	-	see also 9342 line
28210	SPF45	NM_032905.3	727	fagttaccocagagatttcocta	66236	-	see also 9342 line
28211	SRP46	NM_032102.1	875	ctcgtcacagccatatacacago	66248	-	see also 12300 line
28212	SRP35	NM_080743.2	884	atctcgaagtatctcataaaa	66271	-	see also 12301 line
28213	SRP35	NM_080743.2	886	ctcgaagtattatgctataaaaa	66272	-	see also 12301 line
28214	SSX1	NM_005635.2	506	ctgcacccccccaggaaaaagcaaa	66274	transcription_regulat or	soft tissue sarcoma(軟部組織肉腫)、 osteosarcoma(骨髓性骨肉腫)、synovial sarcoma(滑膜肉腫)
28215	SSX1	NM_005635.2	507	tgcacccccccaggaaaaagcaaat	66275	-	see also 28214 line
28216	SSX2	NM_003147.4	643	cacaacattggtogattcagttt	66276	gpcr、 receptor_activity、 transcription_regulat or、	soft tissue sarcoma(軟部組織肉腫)、synovial sarcoma(滑膜肉腫)
28217	SSX2	NM_003147.4	653	gtcgattcagtttgcacttot	66277	-	see also 28216 line
28218	SSX4	NM_005636.3	299	gggaatgattttgtgtaacatcg	66280	-	see also 12302 line
28219	STK31	NM_031414.2	2233	agcagcaagcgtccttttgtagcg	66341	-	see also 9015 line
28220	STK31	NM_031414.2	383	atcgatctatattgtaaatt	66293	-	see also 9015 line
28221	SZF1	NM_016089.1	815	gaggcgtcacaccctgttttgg	66373	-	see also 12304 line

図46 (続き)

813

28222	SZFI	NM_016089.1	1209	gtgtggcggaggcttttagtg	66381	-	see also 12304 line transcription_regulat	-
28223	SZFP41	NM_152279.2	680	gtcaagttcaaggatcatctga	66390	-	or	-
28224	SZFP41	NM_152279.2	1092	atccagaaaacacaattgattgc	66392	-	see also 28223 line	
28225	SZFP41	NM_152279.2	841	ttcaagtattgctctcttttcagg	66391	-	see also 28223 line	
28226	T54	NM_015698.3	557	ggcgcacattcaatcaatgaagt	66396	-	see also 12305 line	
28227	T54	NM_015698.3	559	cgcacattcaatcaatgaagtga	66397	-	see also 12305 line	
28228	TRD1	NM_198795.1	1576	aacattgtctagacaaaagtga	66452	-	see also 12306 line	
28229	TRD1	NM_198795.1	954	ggtaagttacagaattcaaac	66428	-	see also 12306 line	
28230	TRD3	NM_030794.1	887	agcatcggagggaagctcttattg	66545	-	see also 8950 line	
28231	TRD3	NM_030794.1	1391	tagacgtattctagatatgaca	66559	-	see also 8950 line	
28232	TRD4	NM_019038.2	2518	ttcatatgcggttgtagaaatg	66655	-	see also 12308 line	
28233	TRD4	NM_019038.2	1473	ggcgtgtcagagtcacatttt	66626	-	see also 12308 line	
28234	TRKH	NM_006882.2	603	ggacaaattcttctatctgtaa	66671	-	see also 12309 line	
28235	TRKH	NM_006882.2	1956	tccgtagggaaccttactctt	66710	-	see also 12309 line	
28236	TFIP11	NM_012143.1	2314	tgggttggaagtcgattcttca	66743	-	see also 12310 line	
28237	TFIP11	NM_012143.1	1598	caattatggcacccagatcatot	66724	-	see also 12310 line	
28238	THOC4	NM_005782.1	54	gtctotggagacatattaaac	66749	-	see also 12311 line	
28239	THOC4	NM_005782.1	285	gtggcagcagcatcttttcgaca	66752	-	see also 12311 line	
28240	TIPARP	NM_015508.2	1329	tccgagtcgtcatctgattga	66792	-	see also 6442 line	
28241	TIPARP	NM_015508.2	1247	caccacctctagcaatgtcaac	66786	-	see also 6442 line	
28242	TIPARP	NM_015508.2	1807	ggcgtgacaggaataaatga	66807	-	see also 6442 line	
28243	TTZ	NM_138330.1	439	ttcagttaaaaggctgtaaaagt	66815	-	transcription_regulat or, kinase_related,	-
28244	TNRC6	NM_014494.1	5326	ggcggaccgatctcaatcactgg	66925	-	signal_transduction	-
28245	TNRC6	NM_014494.1	5108	ctggctcgcctacagttcaaaaga	66918	-	see also 5711 line	
28246	TNRC6	NM_014494.1	5322	tccagccggacccgagatctcaatca	66923	-	see also 5711 line	
28247	TOE1	NM_025077.2	1728	aggtggctgcgcgagaaactagg	66970	-	see also 12314 line	
28248	TOE1	NM_025077.2	1142	gtgctacacaaatggccttataga	66958	-	see also 12314 line	
28249	TRAF6	NM_004620.2	493	aacgcacatcgcccatagttct	66988	-	see also 3136 line	
28250	TRAF6	NM_004620.2	1233	agctcaaacgaaccattcgacc	67019	-	see also 3136 line	
28251	TRAF6	NM_004620.2	320	agctcctgtagcgtgtgaacaaa	66979	-	see also 3136 line	
28252	TRF4-2	NM_022447.1	432	tggagacacattcaatttttaa	67040	-	see also 12316 line	
28253	TRF4-2	NM_022447.1	623	ttgatattcctacactgttttg	67044	-	see also 12316 line	
28254	TRIM56	NM_030961.1	1926	cgtatagcgaacggctctatctca	67057	-	see also 12317 line	
28255	TRIM56	NM_030961.1	891	ggcgggtgggacaataaactgg	67050	-	see also 12317 line	
28256	U1SNRNP	NM_007020.2	1125	gacgggacggcgttttcgaaaa	67073	-	see also 12318 line	
28257	BP	NM_007020.2	1164	ttgttaaaacgacctctataga	67076	-	see also 12318 line	
28258	U2AF1L3	NM_144987.1	278	ggcgtggctgaacctcaagtaacc	67084	-	see also 9762 line	
28259	U2AF1L3	NM_144987.1	233	ggcgacacgtctatgcaagtcc	67083	-	see also 9762 line	
28260	UNKL	NM_024023.1	493	ggctcgcagtcctcgagaatgtgt	67086	-	see also 12319 line	

28261	UNKL	NM_024023.1	1273	cacagccgaccataaattctga	67096	-	see also 12319 line
28262	USP6	NM_004505.1	2656	ggcagctcgggaaccaattct	67112	-	see also 12320 line
28263	USP6	NM_004505.1	1737	agcggaaagacaatacttatgaag	67105	-	see also 12320 line
28264	ZC3HAV1	NM_020119.3	2278	ttcaaaagctgactcttcatacc	67202	-	see also 12321 line
28265	ZC3HAV1	NM_020119.3	683	tcgcagctccagcgaattatg	67151	-	see also 12321 line
28266	ZC3HDC1	NM_022750.1	1387	gccgctatcgatggcaattctgg	67249	-	see also 12322 line
28267	ZC3HDC1	NM_022750.1	1386	tgccgatcagatggcaattcttg	67248	-	see also 12322 line
28268	ZC3HDC2	NM_017742.2	574	gactccctacacagtatcaataa	67278	-	see also 12323 line
28269	ZC3HDC2	NM_017742.2	2681	ccctccccccttctaagtacag	67322	-	see also 12323 line
28270	ZC3HDC5	NM_152694.1	1056	ttcctgggttcagctgtatgta	67338	-	see also 12324 line
28271	ZC3HDC5	NM_152694.1	1391	tgccagttctatcacagatgaac	67350	-	see also 12324 line
28272	ZNF183	NM_006978.1	664	atctatoggggaatacaaat	67369	-	see also 4871 line
28273	ZNF183	NM_006978.1	417	gacccgtgacagtggaacaga	67362	-	see also 4871 line
28274	ZNF183L1	NM_178861.3	723	aagagggtcgctactgtatctgc	67379	-	see also 12325 line
28275	ZNF183L1	NM_178861.3	692	aagctcggggaggagattgaag	67377	-	see also 12325 line
28276	ZNF2	NM_021088.1	1355	tactcgcacatcagctaatccaca	67383	-	see also 12326 line
28277	ZNF2	NM_021088.1	935	agccctgtccagggaattctca	67380	-	see also 12326 line
28278	ZNF227	NM_182490.1	1367	ggcttcgggttgagtgtaactc	67409	-	see also 12327 line
28279	ZNF227	NM_182490.1	1366	aggcttcgggttgagtgtaactc	67408	-	see also 12327 line
28280	ZNF248	NM_021045.1	949	ttcgggttaattattagtaaaa	67426	-	see also 12328 line
28281	ZNF248	NM_021045.1	1467	ttctcgtgaataaagtgaat	67436	-	see also 12328 line
28282	ZNF350	NM_021632.2	1459	gtcgtctggttgtaagcataaga	67455	-	see also 12329 line
28283	ZNF350	NM_021632.2	726	aacgacttcatactcgaattaaa	67448	-	see also 12329 line
28284	ZNF354B	NM_058230.1	611	ttcagttgcccatacaaaaatoc	67462	-	see also 12330 line
28285	ZNF354B	NM_058230.1	1734	ggagaacccatcagctgtttaga	67469	-	see also 12330 line
28286	ZNF354C	NM_014594.1	349	ttcagatacccgctcagatttca	67474	-	see also 12331 line
28287	ZNF354C	NM_014594.1	357	ccgctcaggtttcagaagctgg	67475	-	see also 12331 line
28288	ZNF415	NM_018355.2	797	gactgtacgtcagtaag.catt	67502	-	see also 12332 line
28289	ZNF415	NM_018355.2	245	gtctcgtaaactgtgaatcaag	67495	-	see also 12332 line
28290	ZNF415	NM_018355.2	765	tgccgacaagccttgatcatgg	67501	-	see also 12332 line
28291	ZNF426	NM_024106.1	1551	tggttatccctcatgtcttaata	67527	-	see also 12333 line
28292	ZNF426	NM_024106.1	649	cagacatcattgggatacaatt	67510	-	see also 12333 line
28293	ZNF454	NM_182594.1	1042	ctcaactacgtacacatcagaaaa	67538	-	see also 12334 line
28294	ZNF454	NM_182594.1	514	ctgtcttgaactgagatgatgc	67531	-	see also 12334 line
28295	ZNF471	NM_020813.1	1112	ttcagtgatggctcgtcttttc	67548	-	see also 12335 line
28296	ZNF471	NM_020813.1	228	accctgtcagaagcgtttatgc	67539	-	see also 12335 line
28297	ZNF514	NM_032788.1	725	cagttgtgatggccagcttagaga	67564	-	see also 12336 line
28298	ZNF514	NM_032788.1	891	ctcagtgagagaaggatcttaaa	67571	-	see also 12336 line
28299	ZNF75A	NM_153028.1	660	aaggatagtcgggaaaaatctoc	67573	-	see also 12337 line
28300	ZNF75A	NM_153028.1	757	cagcaggcgtatatacaaaaaag	67577	-	see also 12337 line
28301	ZNF77	NM_021217.1	211	ttgctccttggttggttgcatt	67584	-	see also 12338 line
28302	ZNF77	NM_021217.1	1257	ttcggatgtccacttaacttag	67596	-	see also 12338 line
28303	ZNF92	NM_007139.2	900	accagttctcgtattttaaataa	67604	-	see also 12339 line
28304	ZNF92	NM_007139.2	430	aactactgacagcaagatatttc	67603	-	see also 12339 line

図 46 (続き)

815

28305	13CDNA73	NM_023037.1	7508	atcctcggagagcggtatgata	67794	-	see also 8545 line
28306	13CDNA73	NM_023037.1	732	aacgcgaagatctgtatcatttg	67614	-	see also 8545 line
28307	13CDNA73	NM_023037.1	3653	gocctagagcgggatacttttagc	67706	-	see also 8545 line
28308	AAK1	NM_014911.2	714	aacgtgagtagcggtgagtagtg	67852	-	see also 12341 line
28309	AAK1	NM_014911.2	533	ggcggagaggtggtgatttgctattg	67845	-	see also 12341 line
28310	AARSL	NM_020745.1	1561	ctgcgacccagcggagagttatga	67907	-	see also 12342 line
28311	AARSL	NM_020745.1	1563	ggcaccacagcggagagttgagt	67908	-	see also 12342 line
28312	ABCA1	NM_005502.2	5676	tggagctgttaccggacaaataag	68015	-	see also 3842 line
28313	ABCA1	NM_005502.2	4844	aagacgtatgcagagatcataga	67995	-	see also 3842 line
28314	ABCA10	NM_080282.2	1870	ggcggagtttttaoctgataaaga	68067	-	see also 12344 line
28315	ABCA10	NM_080282.2	1011	ctcatatgcctgaagttaatt	68046	-	see also 12344 line
28316	ABCA10	NM_080282.2	2606	accgaattatccttccagtacc	68077	-	see also 12344 line
28317	ABCA12	NM_015657.3	4144	atcggggtgtaccggcatttcaga	68239	-	see also 6534 line
28318	ABCA12	NM_015657.3	5813	tgcgactttaataacgaatcc	68295	-	see also 6534 line
28319	ABCA13	NM_152701.2	13711	cagttcgagctgtgctttcattt	68717	-	see also 12346 line
28320	ABCA13	NM_152701.2	10696	ctgccataccagcgacatttcc	68658	-	see also 12346 line
28321	ABCA2	NM_001606.2	6277	gggagacggcgacaatgacatgg	68795	-	see also 1067 line
28322	ABCA3	NM_001089.1	2314	caccagtggaacgggcatcacaca	68814	-	see also 12348 line
28323	ABCA3	NM_001089.1	1014	atcaoctactggttcagttacaca	68806	-	see also 12348 line
28324	ABCA3	NM_001089.1	5536	ggcgaaggttttcggtattctgg	68830	-	see also 12348 line
28325	ABCA4	NM_000350.1	2500	ggatctcgtgtgtgcttgaaga	68886	-	see also 291 line
28326	ABCA4	NM_000350.1	4627	cagcgagcgacggaaattctaca	68905	-	see also 291 line
28327	ABCA5	NM_018672.2	3340	taccgctgagcatgacataga	69019	-	see also 7544 line
28328	ABCA5	NM_018672.2	4072	cccatagtgctggctttaaatt	69042	-	see also 7544 line
28329	ABCA5	NM_018672.2	4071	tcccatagtgctggctttaaatt	69041	-	see also 7544 line
28330	ABCA6	NM_080284.2	2551	aactatgaacaagaatttcgaac	69158	-	see also 12351 line
28331	ABCA6	NM_080284.2	4343	aggctcgccatcgcaagattagt	69200	-	see also 12351 line
28332	ABCA7	NM_019112.2	2811	ggcagagcaogtctggttctatgg	69217	-	see also 12352 line
28333	ABCA7	NM_019112.2	6355	agcacggctggaggagactttcc	69223	-	see also 12352 line
28334	ABCA8	NM_007168.1	1308	tccatcgagcgctcaaatctca	69253	-	see also 4971 line
28335	ABCA8	NM_007168.1	1807	agcaagctgacccgagattgtcc	69269	-	see also 4971 line
28336	ABCA9	NM_080283.2	3588	ttctcgatagttgctactgatct	69416	-	see also 9513 line
28337	ABCA9	NM_080283.2	2262	tgggcatagctaccatttaag	69382	-	see also 9513 line
28338	ABCB1	NM_000927.2	2207	gacgtcatcgctggttttcgatga	69485	-	see also 604 line
28339	ABCB1	NM_000927.2	755	atgacacggtatgcctattatta	69441	-	see also 604 line
28340	ABCB10	NM_012089.1	1475	aacggagggtgtctctttaaata	69528	-	see also 12356 line
28341	ABCB10	NM_012089.1	2112	atcgtgtgtccaccatttaagaat	69541	-	see also 12356 line
28342	ABCB11	NM_003742.2	3964	atccagaacggcgatatacttcgc	69659	-	see also 2554 line
28343	ABCB11	NM_003742.2	135	ctcgttaattcttcgaagtataa	69543	-	see also 2554 line
28344	ABCB4	NM_000443.2	3086	ctcggagctaaagctaaagatttg	69695	-	see also 350 line
28345	ABCB4	NM_000443.2	3084	ttctcgagctaaagctaaagattct	69694	-	see also 350 line
28346	ABCB4	NM_000443.2	2389	ctcaatacggcggttaacagatga	69675	-	see also 350 line
28347	ABCB5	NM_178559.3	737	tgtctgctgcttagtctgaacc	69763	-	see also 12359 line
28348	ABCB5	NM_178559.3	874	accgaatttctactatgaagt	69767	-	see also 12359 line

図 46 (続き)

816

28349	ABCB6	NM_005689.1	1673	tacaacgcgcgaggttacgaagt	69831	-	see also 3949 line
28350	ABCB6	NM_005689.1	2037	agggcgcgtattgagtttgagaac	69840	-	see also 3949 line
28351	ABCB7	NM_004299.2	1979	atcgttagattogattactgaag	69907	-	see also 12361 line
28352	ABCB7	NM_004299.2	2150	tgcataacctatgattatctatt	69914	-	see also 12361 line
28353	ABCB7	NM_004299.2	73	cgcgtcctgcgcgattgcttgg	69848	-	see also 12361 line
28354	ABCB8	NM_007188.2	1993	ggccgcacacggctgctgtaattgc	69944	-	see also 12362 line
28355	ABCB8	NM_007188.2	1417	ctgcgtggctccgttacattica	69937	-	see also 12362 line
28356	ABCB9	NM_019624.1	2191	tgcgcgagacgagattctgattcc	69960	-	see also 7732 line
28357	ABCB9	NM_019624.1	358	gaccacggccatctatgttcoa	69946	-	see also 7732 line
28358	ABCB9	NM_004996.2	4336	tgcgcgttccctccgaatgaacc	70003	-	see also 3489 line
28359	ABCB9	NM_004996.2	3814	gggcaactgcacatgcttcttttg	69994	-	see also 3489 line
28360	ABCB10	NM_033450.2	1711	ggcgactccgggttoaatatcc	70018	-	see also 9427 line
28361	ABCB10	NM_033450.2	1524	ctgctgttaccctgcaacaaagt	70012	-	see also 9427 line
28362	ABCB11	NM_032583.2	397	agcttaccggagtcgttagatga	70044	-	see also 12366 line
28363	ABCB11	NM_032583.2	613	ctgcggccaatattgattatacc	70052	-	see also 12366 line
28364	ABCB11	NM_032583.2	3052	aactatagccggtctctttatt	70088	-	see also 12366 line
28365	ABCB12	NM_033226.1	1096	tgtgcggcgtagcccttttcoa	70125	-	see also 9384 line
28366	ABCB12	NM_033226.1	2422	aggcgctatgcacaaactgattc	70159	-	see also 9384 line
28367	ABCB13	NM_138726.2	601	aaccatctactctctctgcttg	70208	-	see also 12368 line
28368	ABCB13	NM_138726.2	687	tcttcaactagccacatcataat	70212	-	see also 12368 line
28369	ABCB2	NM_000392.1	4095	ctgcgcgtgctgagattatcatt	70307	-	see also 311 line
28370	ABCB2	NM_000392.1	4096	tgcgcgtgctgagattatcattg	70308	-	see also 311 line
28371	ABCB3	NM_003786.2	1159	gtcgtgatcttaacacactatt	70328	-	see also 12370 line
28372	ABCB3	NM_003786.2	4508	atcgacacacggcttaacactat	70364	-	see also 12370 line
28373	ABCB4	NM_005845.2	2622	tgcgcgtgagcttttagatttc	70447	-	see also 12371 line
28374	ABCB4	NM_005845.2	4056	agccctgacacttaactatttc	70492	-	see also 12371 line
28375	ABCB4	NM_005845.2	4060	ctcgacacttaactattttcgaga	70493	-	see also 12371 line
28376	ABCB5	NM_005688.1	4297	ttctaggtctccgtaggattatg	70574	-	see also 3945 line
28377	ABCB5	NM_005688.1	1284	gaggagcgtcggtattggaaaa	70513	-	see also 3945 line
28378	ABCB5	NM_005688.1	3464	ggggctgattgctgcttcttgc	70549	-	see also 3945 line
28379	ABCB6	NM_001171.2	3471	aacaatgctcgtgtagatgaag	70600	-	see also 12373 line
28380	ABCB6	NM_001171.2	2680	gacgcgagaggtccatcaagta	70596	-	see also 12373 line
28381	ABCB8	NM_000352.2	4788	tgcctactgaggttcgataagc	70640	-	see also 12374 line
28382	ABCB8	NM_000352.2	4787	gtgcacactttaggttagataag	70639	-	see also 12374 line
28383	ABCB9	NM_005691.1	3087	agctgacagacactactatgtgg	70730	-	see also 3953 line
28384	ABCB9	NM_005691.1	1189	aggctctactgcttaacttctc	70670	-	see also 3953 line
28385	ABCD1	NM_000033.2	698	caccttctgagggtatgtgg	70782	-	see also 5 line
28386	ABCD1	NM_000033.2	1576	atgcctactgagggtatgtgg	70787	-	see also 5 line
28387	ABCD2	NM_005164.2	1814	cactctctgaggttacaatatgt	70844	-	see also 3628 line
28388	ABCD2	NM_005164.2	1812	tacactctgaggttacaatat	70843	-	see also 3628 line
28389	ABCD3	NM_002858.2	682	aagttacagagtgcaattggagc	70904	-	see also 1891 line
28390	ABCD4	NM_005050.1	552	ccgtttaccctctgctactaca	70958	-	see also 3525 line
28391	ABCD4	NM_005050.1	1647	ctcctttgcccgaactcttctacc	70968	-	see also 3525 line
28392	ABCD4	NM_005050.1	90	ggccaggtagatctgcaatttc	70947	-	see also 3525 line

図46 (続き)

28393	ABCE1	NM_002940.1	318	tgccgcttatacaattgtcaatc	70988	-	see also 1974 line
28394	ABCE1	NM_002940.1	311	gccctttggcgcttatacaatt	70984	-	see also 1974 line
28395	ABCF2	NM_005692.3	1334	atggccttgcctcatcacaataat	71030	-	see also 3956 line
28396	ABCF2	NM_005692.3	1740	caccaatcaccttgatatacaga	71043	-	see also 3956 line
28397	ABCF3	NM_018358.1	113	ggcgacttgcgcgaataatcgc	71045	-	see also 7412 line
28398	ABCF3	NM_018358.1	2099	gtccacatgatggcgctttataa	71072	-	see also 7412 line
28399	ABCG1	NM_004915.2	1796	tacagtgagtgctcacaatctcc	71087	-	see also 12382 line
28400	ABCG1	NM_004915.2	883	gtcctgagtaagaagacaatgtt	71080	-	see also 12382 line
28401	ABCG2	NM_004827.1	1411	gtctacttgggaactggtttatagg	71121	-	see also 12383 line
28402	ABCG2	NM_004827.1	641	ttcgcttgcaacaactatgacgg	71100	-	see also 12383 line
28403	ABCG2	NM_004827.1	1912	tacttcagcatccacgatattgg	71136	-	see also 12383 line
28404	ABCG4	NM_022169.2	227	ggcgcaaaagggggttataagacc	71150	-	see also 8326 line
28405	ABCG4	NM_022169.2	654	ccgcctgtcatgtcttcttgatg	71156	-	see also 8326 line
28406	ABCG5	NM_022436.2	685	accgactgattggcaactacagc	71162	-	see also 12385 line
28407	ABCG5	NM_022436.2	1823	ggagttgcccgctattggatattt	71179	-	see also 12385 line
28408	ABCG8	NM_022437.2	1873	ttcctgcgggtgtgtttgaagg	71221	-	see also 8356 line
28409	ABCG8	NM_022437.2	1954	atcgggtctcaggagataaaat	71222	-	see also 8356 line
28410	ABL2	NM_005158.2	2815	ggccgaccccgagcggtataaaccc	71286	-	see also 12387 line
28411	ABL2	NM_005158.2	2819	gaccccgagcggtataaaccaag	71287	-	see also 12387 line
28412	ACACB	NM_001093.1	3523	cactacgcaagtggtgtgataaa	71499	-	see also 12388 line
28413	ACACB	NM_001093.1	5843	aagagatagtaaccattagcttg	71527	-	see also 12388 line
28414	ACK1	NM_005781.2	830	aacgcgaagtcgtggtatgagtaag	71554	-	see also 12389 line
28415	ACK1	NM_005781.2	1345	ctggagtcgaagcgctgtttatca	71556	-	see also 12389 line
28416	AGLY	NM_001036.2	1229	ggcatcgtggagagcaattcgaga	71580	-	see also 682 line
28417	AGLY	NM_001036.2	1237	ggagacaattcgagattacacagg	71581	-	see also 682 line
28418	ACVR1	NM_001105.2	890	ttgatatcattgtgtacatcagg	71613	-	see also 686 line
28419	ACVR1	NM_001105.2	1602	atggtatagtgaggagattacaag	71625	-	see also 686 line
28420	ACVR1B	NM_004302.3	651	ggcccgaaacacatcgcttttacaag	71641	-	see also 12392 line
28421	ACVR1B	NM_004302.3	652	ggccgaacacatggttttacaaga	71642	-	see also 12392 line
28422	ACVR1C	NM_145259.1	1146	tggcttgccacacattcatatgg	71676	-	see also 12393 line
28423	ACVR1C	NM_145259.1	1656	cgccttaactgctcttcttgatta	71683	-	see also 12393 line
28424	ACVR2	NM_001616.2	405	atgatatacaactgctatgacagg	71699	-	see also 1070 line
28425	ACVR2	NM_001616.2	555	caacctaaagccacctattacaac	71708	-	see also 1070 line
28426	ACVR2B	NM_001106.2	1512	tggacctgcccttaagaagtca	71753	-	see also 687 line
28427	ACVR2B	NM_001106.2	1307	aagatgagcccccaccattaaaga	71750	-	see also 687 line
28428	ACVRL1	NM_000020.1	1722	caaccgcctgcggatcaagaaga	71763	-	see also 12396 line
28429	ACVRL1	NM_000020.1	1665	ctcagccttagctcaagatgctc	71762	-	see also 12396 line
28430	ADRBK1	NM_001619.2	656	ttcagcgtgcctgcacatcattgg	71768	-	see also 12397 line
28431	ADRBK1	NM_001619.2	402	ggagatcttcgactacatcac	71766	-	see also 12397 line
28432	ADRBK2	NM_005160.2	1787	gtggcagagtgctatttttacc	71818	-	see also 3627 line
28433	ADRBK2	NM_005160.2	1785	cagtgaggcagcgtcgctatttta	71817	-	see also 3627 line
28434	ADRBK2	NM_005160.2	1841	ggagagtgcccgcccaaaaattac	71820	-	see also 3627 line
28435	AFG3L1	NM_001132.1	623	ctgggaagtcgtgaacaacaatc	71827	-	see also 12399 line
28436	AFG3L1	NM_001132.1	472	cccttgggatgacggatttcc	71824	-	see also 12399 line

图 46 (续)

[illegible]

819

図46 (続き)

28478	ATP10D	NM_020453.2	1085	acggatataagcgcgaagcaaatag	72442	-	see also 12417 line
28479	ATP12A	NM_001676.2	2782	gcgcctgcgtgtactatcacc	72560	-	see also 12418 line
28480	ATP12A	NM_001676.2	1496	gcctcttatccaagataaac	72536	-	see also 12418 line
28481	ATP1A1	NM_000701.5	1008	caccgaacgtgtattgtgtct	72597	-	see also 12419 line
28482	ATP1A1	NM_000701.5	1011	cgcaacgtgtattgtgtctaca	72598	-	see also 12419 line
28483	ATP1A2	NM_000702.1	1944	accggggatcacccctatcacgc	72638	-	see also 431 line
28484	ATP1A2	NM_000702.1	935	tggcggaacacccatgcaatgg	72630	-	see also 431 line
28485	ATP1A3	NM_152296.2	1496	gcgtgaacgcacacgaagatgg	72648	-	see also 9834 line
28486	ATP1A3	NM_152296.2	3053	ctgtgccttccctacagttcc	72651	-	see also 9834 line
28487	ATP1A4	NM_144899.1	3208	acctatgagcaacgaagttgt	72676	-	see also 12422 line
28488	ATP1A4	NM_144899.1	2188	aagggaattccatttaatacaga	72666	-	see also 12422 line
28489	ATP2A1	NM_004320.2	1528	ctcgtgatccgcagctaatga	72698	-	see also 2888 line
28490	ATP2A1	NM_004320.2	2153	cctcgcacagtcgaagattgt	72703	-	see also 2888 line
28491	ATP2A2	NM_001681.2	2836	atccccatcacccgatgacaatgg	72769	-	see also 1102 line
28492	ATP2A2	NM_001681.2	639	ttcctgtatataagtttaact	72720	-	see also 1102 line
28493	ATP2A3	NM_005173.2	2855	tcctgtctgtgaccttgaat	72795	-	see also 12424 line
28494	ATP2A3	NM_005173.2	1548	agcgagctggcgctgttaacacg	72787	-	see also 12424 line
28495	ATP2A3	NM_005173.2	683	tcctctcgtacgggtgaatcigt	72781	-	see also 12424 line
28496	ATP2B1	NM_001682.1	1792	acctgtcacctgtgttaataaa	72840	-	see also 12425 line
28497	ATP2B1	NM_001682.1	1791	tactcgtcacgttgtgttaataa	72839	-	see also 12425 line
28498	ATP2B1	NM_001682.1	852	ttccagctgacgcatactatt	72813	-	see also 12425 line
28499	ATP2B2	NM_001683.1	3490	cacggcgagcgcaatgtcttga	72930	-	see also 1104 line
28500	ATP2B3	NM_021949.1	1342	tgcacgcggtctatgtacaata	72948	-	see also 12426 line
28501	ATP2B3	NM_021949.1	1344	cacgcggtctatgtacataact	72949	-	see also 12426 line
28502	ATP2C1	NM_014382.1	563	cactgtggcaatactattcgttg	72976	-	see also 5642 line
28503	ATP2C1	NM_014382.1	2625	agctacagacaatgtgattaca	73039	-	see also 5642 line
28504	ATP4A	NM_000704.1	574	gtcatccgcgatggagacaatt	73059	-	see also 433 line
28505	ATP4A	NM_000704.1	500	ttggctactaccaggaattcaag	73057	-	see also 433 line
28506	ATP5A1	NM_004046.3	1268	atccgacctgaatgaacgttgg	73109	-	see also 12429 line
28507	ATP5A1	NM_004046.3	1264	aggtatccgcctcgcaattaacg	73108	-	see also 12429 line
28508	ATP5B	NM_001686.2	1370	gtgtccogtgcacgggaaataca	73141	-	see also 12430 line
28509	ATP5B	NM_001686.2	796	ctctaaggttagcgtgttatatg	73126	-	see also 12430 line
28510	ATP6AP1	NM_001183.3	652	tcctgaatgtcccatcacacgc	73148	-	see also 12431 line
28511	ATP6AP1	NM_001183.3	1369	aagaccatggatgcgtttgtga	73158	-	see also 12431 line
28512	ATP6V1B1	NM_001692.2	146	ggcggtcacccgaactacataca	73220	-	see also 12433 line
28513	ATP6V1B1	NM_001692.2	571	ctcctattgatcatgaacacgc	73230	-	see also 12433 line
28514	ATP6V1B2	NM_001693.2	1476	tgcgtcatgctattggaagg	73279	-	see also 1110 line
28515	ATP6V1B2	NM_001693.2	1236	gagaaacggctcgattactcaaa	73270	-	see also 1110 line
28516	ATP6V1C1	NM_001695.2	595	ctcgagcatctgcatacaataac	73304	-	see also 1111 line
28517	ATP6V1C1	NM_001695.2	466	gagtgagcttggtacttatata	73298	-	see also 1111 line
28518	ATP6V1C2	NM_144583.1	1090	tcctgggactgcacactcaataac	73352	-	see also 9706 line
28519	ATP6V1C2	NM_144583.1	504	accgggacactgagtgatttgt	73337	-	see also 9706 line
28520	ATP6V1H	NM_015941.1	1569	cagcaggtccgctataatgtct	73387	-	see also 6582 line
28521	ATP6V1H	NM_015941.1	1566	gaccagcaggtccgctataatgc	73386	-	see also 6582 line

820

図46 (続き)

28522	ATP7A	NM_000052.1	4502	ctggaccggattgtaattatag	73515	-	see also 21 line
28523	ATP7A	NM_000052.1	3080	tccgaacagaaacataatag	73480	-	see also 21 line
28524	ATP7B	NM_000053.1	4041	ggcagccgagctgctctatca	73594	-	see also 26 line
28525	ATP7B	NM_000053.1	4045	ggcagcgtgctctctatcagaaa	73596	-	see also 26 line
28526	ATP8A1	NM_006095.1	1575	aacacccgactcgggtattatg	73646	-	see also 4236 line
28527	ATP8A1	NM_006095.1	1272	caccatagcgggagttgottatg	73638	-	see also 4236 line
28528	ATP8A1	NM_006095.1	1579	cccgactcgggtattatagattc	73648	-	see also 4236 line
28529	ATP8A2	NM_016529.3	2923	gcgtcccgcatgggtatgctttt	73775	-	see also 6904 line
28530	ATP8A2	NM_016529.3	552	gagacgaacccttaaaatcgtca	73714	-	see also 6904 line
28531	ATP8B1	NM_005603.1	484	gacgatggctcgcataaaat	73796	-	see also 12441 line
28532	ATP8B1	NM_005603.1	2931	gactgatacagagagattgctca	73876	-	see also 12441 line
28533	ATP8B1	NM_005603.1	491	tggctcgcataaaatggataag	73799	-	see also 12441 line
28534	ATSV	NM_004321.3	4855	tccgagtcagcccgatcgtttcc	73926	-	see also 2893 line
28535	ATSV	NM_004321.3	3844	atgaccggacccctttaccattt	73916	-	see also 2893 line
28536	ATSV	NM_004321.3	3944	gacactcgcgtttatcagaga	73924	-	see also 2893 line
28537	AURKB	NM_004217.1	261	aacggcgcacttcacattgatg	73930	-	see also 12443 line
28538	AURKB	NM_004217.1	242	gtgggacacccgacatcttaacg	73929	-	see also 12443 line
28539	AURKC	NM_003160.1	557	tctgcgctgtataactatttc	73942	-	see also 12444 line
28540	AURKC	NM_003160.1	672	ggcgacagccagagataatagagg	73947	-	see also 12444 line
28541	AXL	NM_001699.3	791	cacgggacagctaccagctgtttgg	73953	-	see also 1112 line
28542	BCKDK	NM_005381.1	640	ctgcagctgcatgagctatat	73977	-	see also 4092 line
28543	BCS1L	NM_004328.3	532	ggccgatttcctactaagtgtga	73988	-	see also 2896 line
28544	BCS1L	NM_004328.3	819	cggggagcaactgaattctgtgg	73996	-	see also 2896 line
28545	BLK	NM_001715.2	1726	ctcgaatcatcgacagtgatgaac	74017	-	see also 12448 line
28546	BLK	NM_001715.2	783	gactacacgctgatgaatgatcgg	74005	-	see also 12448 line
28547	BLK	NM_001715.2	1806	ttcgggcttccaccataaagc	74019	-	see also 12448 line
28548	BMP2K	NM_017593.3	1015	ttctcgtactcccgtaacatac	74050	-	see also 7045 line
28549	BMP2K	NM_017593.3	1069	tccggaacatagacctgatata	74057	-	see also 7045 line
28550	BMP1A	NM_004329.1	662	tacggcgcaataagaattgt	74104	-	see also 2897 line
28551	BMP1A	NM_004329.1	659	agctacgcccggacaataagaatgt	74103	-	see also 2897 line
28552	BMP1B	NM_001203.1	1155	caccctagcagctaaatcaatgc	74137	-	see also 12451 line
28553	BMP1B	NM_001203.1	1099	tacctaatcacactatcakra	74135	-	see also 12451 line
28554	BMP1B	NM_001204.1	1179	tccgaacccctctctgatctaga	74164	-	see also 788 line
28555	BMP1B	NM_001204.1	1722	agcgaggttggcactatcagata	74195	-	see also 788 line
28556	BMS1L	NM_014753.1	2085	tccaaacctcggaaagctattt	74255	-	see also 12453 line
28557	BMS1L	NM_014753.1	2084	ctcgaacccctcggaaagctattt	74254	-	see also 12453 line
28558	BMX	NM_001721.3	1097	tccgagccaagtgggaatgtaca	74278	-	see also 12454 line
28559	BMX	NM_001721.3	1829	cagttcagtcgggaacaaagtcc	74296	-	see also 12454 line
28560	BRAF	NM_004333.2	1389	gacgggactcgggtgatgtatgg	74340	-	see also 12455 line
28561	BRAF	NM_004333.2	586	tacagtcggagacagctcaaaaga	74312	-	see also 12455 line
28562	BTB	NM_000061.1	1857	caccggaagtctgatgtatagc	74399	-	see also 36 line
28563	BTB	NM_000061.1	1855	ccacccggaagtctctgatgtata	74398	-	see also 36 line
28564	BUB1	NM_004336.1	1793	tgggctattcgcgtcaacaaac	74435	-	see also 2898 line
28565	BUB1	NM_004336.1	672	aacgaagagtgatcacgatttct	74411	-	see also 2898 line

821

図46 (続き)

28566	BUB1	NM_004336.1	3251	gocctacgtataggctaattgt	74477	-	see also 2898 line
28567	BUB1B	NM_001211.3	2815	tccacgattcctatgtatgaac	74538	-	see also 12458 line
28568	BUB1B	NM_001211.3	508	agcttaattaggcggtttatgc	74489	-	see also 12458 line
28569	C14orf127	NM_025152.1	487	ttggggctcaactggactacttag	74570	-	see also 12459 line
28570	C14orf127	NM_025152.1	488	tgggtcaactgaactacttagt	74571	-	see also 12459 line
28571	C14orf131	NM_018335.1	908	gccacattggactactacttgaat	74595	-	see also 12460 line
28572	C14orf131	NM_018335.1	1107	gacttcgagatggcttactctgt	74598	-	see also 12460 line
28573	C14orf20	NM_174944.1	1159	accataccttgcaaatgaacacc	74610	-	see also 12461 line
28574	C14orf20	NM_174944.1	1156	agcacaacatccttgcaaatgaac	74609	-	see also 12461 line
28575	C20orf23	NM_017683.1	622	aacgaacgtgtgagagatactact	74623	-	see also 12462 line
28576	C20orf23	NM_017683.1	951	caccgggttgaggctaaaggaag	74634	-	see also 12462 line
28577	C20orf23	NM_017683.1	644	ttggcgggaagtcatotaaacc	74626	-	see also 12462 line
28578	C20orf64	NM_033550.2	695	ggctggaatgcacatgaagacc	74715	-	see also 12463 line
28579	C20orf64	NM_033550.2	662	ctccaaacttagccaagaacaattg	74714	-	see also 12463 line
28580	C20orf64	NM_033550.2	938	ggccaggccagtgcttaaaaaaat	74719	-	see also 12463 line
28581	C20orf97	NM_021158.2	1210	gcctacgtgggaacctgagatact	74723	-	see also 12464 line
28582	C20orf97	NM_021158.2	803	ggcctacaggcactgagtatacc	74722	-	see also 12464 line
28583	C6orf199	NM_145025.2	211	aacacattagcccggttaacataa	74725	-	see also 12465 line
28584	C6orf199	NM_145025.2	952	aagagcagctattctaaccaaac	74742	-	see also 12465 line
28585	C8FW	NM_025195.2	1615	gggtacatcgactcagaaatagg	74758	-	see also 12466 line
28586	C8FW	NM_025195.2	1618	tacatcagctcagaaataggaaac	74759	-	see also 12466 line
28587	CACNA1B	NM_000718.1	3362	ggccggaacattgttacatat	74777	-	see also 435 line
28588	CACNA1B	NM_000718.1	1671	ggcttaacagaccctgtatttt	74769	-	see also 435 line
28589	CAD	NM_004341.2	5394	ggggagggtgccttatcgatgg	74903	-	see also 12468 line
28590	CAD	NM_004341.2	5226	cacaatcctcggcgcatcttcca	74899	-	see also 12468 line
28591	CAMK1	NM_003656.3	1042	gtcgttgatgagcagatcaaga	74925	-	see also 12469 line
28592	CAMK1	NM_003656.3	826	tcccttatgacgagaaatgatg	74919	-	see also 12469 line
28593	CAMK1	NM_003656.3	827	cccttctatgacgagaaatgatgc	74920	-	see also 12469 line
28594	CAMK1D	NM_020397.1	697	tgcgtgctcagcagagatgattgc	74931	-	see also 12470 line
28595	CAMK1D	NM_020397.1	453	cacttgatcgcgcaagtcttgg	74929	-	see also 12470 line
28596	CAMK1D	NM_020397.1	785	tccctaaggcggaataatgagttt	74936	-	see also 12470 line
28597	CAMK1G	NM_020439.1	695	aacggagcttaagcttttcgaga	74962	-	see also 12471 line
28598	CAMK1G	NM_020439.1	701	gtctaagcttttcgagaagatca	74963	-	see also 12471 line
28599	CAMK1G	NM_020439.1	691	aagaaacggagcttaagcttttc	74961	-	see also 12471 line
28600	CAMK2A	NM_015981.2	356	cccaacatcgtccgactacatga	74969	-	see also 6591 line
28601	CAMK2A	NM_015981.2	1351	ggcgctgacttccatccgattct	74979	-	see also 6591 line
28602	CAMK2B	NM_001220.3	2062	atccggctcagcagctacattga	74996	-	see also 800 line
28603	CAMK2B	NM_001220.3	1846	ggcgctcaacacgctgactttga	74992	-	see also 800 line
28604	CAMK2B	NM_001220.3	244	taccagctctacgggactatgg	74983	-	see also 800 line
28605	CAMK2D	NM_001221.2	534	cacggacagctatgaagctttcgc	74997	-	see also 801 line
28606	CAMK2D	NM_001221.2	1779	tgcgcctcgtatgacatattta	75021	-	see also 801 line
28607	CAMK2G	NM_001222.2	1125	gtggtaacacacgctcagatgg	75042	-	see also 803 line
28608	CAMK2G	NM_001222.2	1269	gaggcctcacacagagatttga	75044	-	see also 803 line
28609	CAMK4	NM_001744.3	834	gaggcgatcagttcattgttcagg	75063	-	see also 1154 line

図 46 (続き)

822

28610	CAMK4	NM_001744.3	893	tgtgggatgaagatctctctaaa	75070	-	see also 1154 line
28611	CAMK1	NM_032294.2	1198	gtgccattcatcgaogatttca	75086	-	see also 9146 line
28612	CAMK1	NM_032294.2	1322	aagaatcccgagacagagattgg	75091	-	see also 9146 line
28613	CAMK2	NM_006549.3	2001	tggacggagcgatcatgtttta	75108	-	see also 12478 line
28614	CAMK2	NM_006549.3	1951	ggccatgggtgtgacactatct	75106	-	see also 12478 line
28615	CARD12	NM_021209.3	2036	tcccgattactatttgacttc	75156	-	see also 12479 line
28616	CARD12	NM_021209.3	280	gacaaatagcgagcccttattca	75113	-	see also 12479 line
28617	CARD15	NM_022162.1	2561	ctctgtatttggcgataaacaat	75206	-	see also 8318 line
28618	CARD15	NM_022162.1	586	ttgcacgacgattgaattgga	75188	-	see also 8318 line
28619	CARD15	NM_022162.1	2619	tgtcttctactcgagcaattgc	75209	-	see also 8318 line
28620	CARD4	NM_006092.1	2740	agccaggtactgtcaccaaaatcc	75236	-	see also 12481 line
28621	CARD4	NM_006092.1	2668	aagcgaagcgctgaccaaataca	75233	-	see also 12481 line
28622	CARK	NM_015978.1	1520	aacgttatcgagccaatactac	75294	-	see also 12482 line
28623	CARK	NM_015978.1	1510	gtgctataaaacgattatcgagc	75293	-	see also 12482 line
28624	CASK	NM_003688.1	863	gggatgtttacgcttacaagatt	75353	-	see also 2506 line
28625	CASK	NM_003688.1	96	cagttgtttacacgatgtatca	75316	-	see also 2506 line
28626	CCRK	NM_012119.2	894	tgcagactacaacaaagatctcc	75405	-	see also 12484 line
28627	CCRK	NM_012119.2	888	ctgagctgcggagctacaacaag	75404	-	see also 12484 line
28628	CCT2	NM_006431.1	125	cagctcgtctgacttctttatt	75409	-	see also 12485 line
28629	CCT2	NM_006431.1	221	gtggacgagagctctctctatg	75410	-	see also 12485 line
28630	CCT3	NM_005998.2	1256	atgcaagtggtcgcaattgtct	75451	-	see also 12486 line
28631	CCT3	NM_005998.2	1026	cagacaataatcgattgcttga	75447	-	see also 12486 line
28632	CCT4	NM_006430.2	1443	tggccctacgattaaactgaata	75505	-	see also 4500 line
28633	CCT4	NM_006430.2	1438	tagagttggccctacgacttaact	75503	-	see also 4500 line
28634	CCT5	NM_012073.2	98	accctgcctcctgagatattgg	75521	-	see also 12488 line
28635	CCT5	NM_012073.2	97	gacctgcctcctgagatattgg	75520	-	see also 12488 line
28636	CCT6A	NM_001762.2	1530	taggogtatgggataactattgt	75575	-	see also 12489 line
28637	CCT6A	NM_001762.2	1532	ggcgtatgggataactatttgt	75576	-	see also 12489 line
28638	CCT6B	NM_006584.1	1465	aacttggggcgtagatttgaat	75607	-	see also 12490 line
28639	CCT6B	NM_006584.1	1462	aacaacttggggcgtagatttg	75606	-	see also 12490 line
28640	CCT7	NM_006429.1	1473	gcccaggggggtacatagattgg	75652	-	see also 12491 line
28641	CCT7	NM_006429.1	193	cccgtaggcagtgacaagcttatt	75616	-	see also 12491 line
28642	CCT8	NM_006585.1	1546	ggctataaactcgtactactatg	75703	-	see also 12492 line
28643	CCT8	NM_006585.1	513	ctctacttgcctccataatg	75661	-	see also 12492 line
28644	CCT8	NM_006585.1	577	tgtcagcagcagcgtatctattt	75668	-	see also 12492 line
28645	CDC2	NM_001786.2	655	ctggggtagcctgattactcaac	75722	-	see also 12493 line
28646	CDC2	NM_001786.2	968	tggcactgaatcatcatatttt	75737	-	see also 12493 line
28647	CDC2L5	NM_003718.2	2726	aagaaagtcggccgtactaac	75778	-	see also 12494 line
28648	CDC2L5	NM_003718.2	2736	ggcgtactactaaagaataatta	75781	-	see also 12494 line
28649	CDC42BP	NM_003607.2	4600	agccgcaatcatagatcatgaaa	75940	-	see also 12495 line
28650	CDC42BP	NM_003607.2	5213	caggcccggaagatctagacaaca	75961	-	see also 12495 line
28651	CDC42BP	NM_006035.2	4845	ctccacgttgatctacttcaag	76022	-	see also 4206 line
28652	CDC42BP	NM_006035.2	5313	aacactcaactcatcgaatago	76026	-	see also 4206 line
28653	CDC42BP	NM_006035.2	3566	ggcatgggaacagcctacaagg	76003	-	see also 4206 line

823

図46 (続き)

28654	CDK6	NM_001254.2	383	gtctggcgatgacaaacctatgc	76037	-	see also 12497 line
28655	CDK6	NM_001254.2	477	tacacttaaggagacgaagattgg	76041	-	see also 12497 line
28656	CDK6	NM_001254.2	387	ggggcgatgacaaacctatgcaaca	76038	-	see also 12497 line
28657	CDK7	NM_003503.2	728	aggaaacctatgatacgaataatag	76099	-	see also 2360 line
28658	CDK7	NM_003503.2	622	aacgcattcatcagttgtgtatt	76092	-	see also 2360 line
28659	CDK7	NM_003503.2	731	aaccgatgatacgaataatagagc	76100	-	see also 2360 line
28660	CDK10	NM_003674.2	979	tcaggagagccctacacaac	76127	-	see also 12499 line
28661	CDK10	NM_003674.2	707	ggcctatgggtcccgataagc	76126	-	see also 12499 line
28662	CDK10	NM_003674.2	1099	gcctggagagctcctatttcaag	76129	-	see also 12499 line
28663	CDK2	NM_001798.2	691	gagtcctgttctgtacttacacc	76135	-	see also 1175 line
28664	CDK3	NM_001258.1	647	tggagcatgttgcatctttgc	76144	-	see also 12501 line
28665	CDK4	NM_000075.2	388	ttcgtgaggtgcttctactgagg	76146	-	see also 12502 line
28666	CDK4	NM_000075.2	407	gaggcgactggaggcttttgagc	76147	-	see also 12502 line
28667	CDK5	NM_004935.2	809	aacgtcgtgcccaactcaatgc	76170	-	see also 12503 line
28668	CDK5	NM_004935.2	351	acctogactctgagattgaaag	76165	-	see also 12503 line
28669	CDK6	NM_001259.2	534	gagtagtgcacgcgatataaa	76177	-	see also 819 line
28670	CDK6	NM_001259.2	338	aacgtgtgcaggtgtttgatgt	76172	-	see also 819 line
28671	CDK7	NM_001799.2	797	tggccggacatgtgtagtcttcc	76211	-	see also 12505 line
28672	CDK7	NM_001799.2	884	gacgacttactagatctatata	76217	-	see also 12505 line
28673	CDK8	NM_001260.1	706	tactaacctgaagacccaatattt	76240	-	see also 12506 line
28674	CDK8	NM_001260.1	710	actgcgaagacccaatatttcaact	76241	-	see also 12506 line
28675	CDK8	NM_001260.1	1057	acgtttttgcgctgttgcataac	76256	-	see also 12506 line
28676	CDK9	NM_001261.2	375	aacgctgcgaaggtagtatata	76264	-	see also 12507 line
28677	CDK9	NM_001261.2	376	accgtgcgaaggtagtatatac	76265	-	see also 12507 line
28678	CDK9	NM_001261.2	496	tgcctaacggcctctactacatc	76270	-	see also 12507 line
28679	CDK11	NM_004196.3	438	aacattccgtgattgaagctttgt	76283	-	see also 12508 line
28680	CDK11	NM_004196.3	442	ttccgtgattaagcttttgact	76284	-	see also 12508 line
28681	CDK12	NM_003948.2	1178	tacatttgaccccgacaaaaga	76335	-	see also 12509 line
28682	CDK12	NM_003948.2	1576	agcgtggacacacaaggaatcc	76344	-	see also 12509 line
28683	CDK13	NM_016508.2	325	atccttcgagcaattgactatct	76362	-	see also 12510 line
28684	CDK13	NM_016508.2	493	tggatatagagctcccgaaattagt	76366	-	see also 12510 line
28685	CDK15	NM_003159.1	1611	cagagtcggcatagctatctaga	76432	-	see also 12511 line
28686	CDK15	NM_003159.1	682	ttgattttgtcgttaactctgca	76412	-	see also 12511 line
28687	CENPE	NM_001813.1	1595	cacttcgtgctgactatgataat	76494	-	see also 12512 line
28688	CENPE	NM_001813.1	287	tagcagccacaatcatgattct	76466	-	see also 12512 line
28689	CFTF	NM_000492.2	3334	ttcgacggcagcgccttacttga	76721	-	see also 384 line
28690	CFTF	NM_000492.2	2556	cagcacccattctgattatgtga	76706	-	see also 384 line
28691	CGI-04	NM_015936.1	1270	ccggagggtatcgatgataaca	76796	-	see also 12514 line
28692	CGI-04	NM_015936.1	158	ccggagagcgggacgaaatag	76766	-	see also 12514 line
28693	CGI-152	NM_020410.1	2474	acgagagtagcgcattgtgaaa	76822	-	see also 7866 line
28694	CGI-152	NM_020410.1	2476	gagagtagcgcattgtgaaact	76823	-	see also 7866 line
28695	CHEK1	NM_001274.2	1266	tggcagcgggttggtcaaaagaat	76872	-	see also 840 line
28696	CHEK1	NM_001274.2	1120	ccggcacagggttcttctatgg	76864	-	see also 840 line
28697	CHEK2	NM_007194.2	1297	aacgcgcgtctttgataacaat	76893	-	see also 4996 line

824

図46 (続き)

28698	CHUK	NM_001278.2	1100	ttactacagtcctgattgagc	76945	-	see also 844 line
28699	CHUK	NM_001278.2	1777	aacagcgtgccattgatctatat	76966	-	see also 844 line
28700	CIT	NM_007174.1	4544	tccgcagcgggagtgatctatttc	77074	-	see also 4975 line
28701	CIT	NM_007174.1	1792	gacggagtgatctctacgaatct	77029	-	see also 4975 line
28702	CIT	NM_007174.1	4545	cgcagcgggagtgatctatttca	77075	-	see also 4975 line
28703	CLK1	NM_004071.1	362	togaagctacattgatgagtaaca	77111	-	see also 12519 line
28704	CLK1	NM_004071.1	1390	ttcacccagcagtcattgagctgg	77141	-	see also 12519 line
28705	CLK2	NM_001291.1	354	cagctacagacgacacgattata	77153	-	see also 12520 line
28706	CLK2	NM_001291.1	405	cacagactatggcattctctatg	77157	-	see also 12520 line
28707	CLK3	NM_001292.1	177	gagcctcccccagagatctcg	77163	-	see also 12521 line
28708	CLK3	NM_001292.1	244	agcgcgctgacagcgatatacatc	77164	-	see also 12521 line
28709	CLK4	NM_020666.1	602	ctcttcagaaatccaagtattta	77190	-	see also 7912 line
28710	CLK4	NM_020666.1	1351	ctggttcgaagaatgttagaata	77207	-	see also 7912 line
28711	CLPX	NM_006660.3	136	gctccgcgcagcagaggtatttc	77211	-	see also 4706 line
28712	CLPX	NM_006660.3	1725	cagattggcactgaacgaaaaa	77264	-	see also 4706 line
28713	CNK	NM_004073.1	275	acgcacacatctgogtttttcg	77278	-	see also 2743 line
28714	CNTN6	NM_014461.2	2405	gtcgtctgaactcgtcattacg	77355	-	see also 5690 line
28715	CNTN6	NM_014461.2	1028	atccagctcccgatattagttgg	77315	-	see also 5690 line
28716	CPS1	NM_001875.2	2378	acgtgtatctcgggaagacatca	77423	-	see also 12526 line
28717	CPS1	NM_001875.2	2518	atgctctatgtctgactcttga	77428	-	see also 12526 line
28718	CRK7	NM_016507.1	382	agggcttccgggacttactaaa	77495	-	see also 6883 line
28719	CRK7	NM_016507.1	4272	ccgggtgtcgggcaaccattcc	77574	-	see also 6883 line
28720	CRK7	NM_016507.1	852	gtcgtcagtcctcccttaacagg	77510	-	see also 6883 line
28721	CSF1R	NM_005211.2	2370	ccgagggagcgtcgactataag	77603	-	see also 3661 line
28722	CSF1R	NM_005211.2	2376	gaggcgtgactataagaacatca	77606	-	see also 3661 line
28723	CSK	NM_004383.1	1132	gagcaaatgcggcatagcaacc	77629	-	see also 2941 line
28724	CSK	NM_004383.1	436	gccatccggtaacagaatgtattg	77620	-	see also 2941 line
28725	CSK	NM_004383.1	899	ctctgtacgcgcctcattaaacc	77626	-	see also 2941 line
28726	CSNK1A1	NM_001892.3	897	ttgcggtacttaaacatttgt	77642	-	see also 12529 line
28727	CSNK1A1	NM_001892.3	142	cagcggctccaaggctgaattca	77634	-	see also 12529 line
28728	CSNK1D	NM_001893.3	657	gtcgcctcgaatacattcattca	77650	-	see also 12530 line
28729	CSNK1D	NM_001893.3	1021	ccccatcgaagtgtgtgttaag	77659	-	see also 12530 line
28730	CSNK1D	NM_001893.3	653	atcagtcgactcgaatacattca	77648	-	see also 12530 line
28731	CSNK1E	NM_001894.4	1178	tcacgcggctggcaatactct	77674	-	see also 1209 line
28732	CSNK1E	NM_001894.4	838	aaggtatctctcgcgaattctca	77670	-	see also 1209 line
28733	CSNK1G1	NM_022048.1	1233	cagagccttaggactgttacagc	77701	-	see also 8248 line
28734	CSNK1G2	NM_001319.5	233	ccgcctaggaagaagaattctata	77704	-	see also 12533 line
28735	CSNK1G3	NM_004384.1	1252	cccacgcgaggcgttcaaatgc	77737	-	see also 2944 line
28736	CSNK1G3	NM_004384.1	1201	ggctcgtgtaaggtgttaagttc	77733	-	see also 2944 line
28737	CSNK2A2	NM_001896.2	953	aacgatatctctgggacaacattc	77762	-	see also 1210 line
28738	CSNK2A2	NM_001896.2	542	atccgggttttatgtatgaact	77748	-	see also 1210 line
28739	CSPG4	NM_001897.2	902	accagtaacctacactacttcg	77764	-	see also 12536 line
28740	CSPG4	NM_001897.2	4076	cactagagcgcgaataactcagc	77770	-	see also 12536 line
28741	CSPG6	NM_005445.2	2566	tactcgtgtaggacttatctca	77858	-	see also 3793 line

825

図46 (続き)

28742	CSPG6	NM_005445.2	350	aaccggttaacaaatcgataaaga	77786	-	see also 3793 line
28743	DAPK1	NM_004938.1	1604	gocagctgacatcgtgaattt	77925	-	see also 3434 line
28744	DAPK1	NM_004938.1	2037	agggtgtttcgtcgattatcaag	77933	-	see also 3434 line
28745	DAPK2	NM_014326.2	838	gaccgggaacacggctcaaatcc	77973	-	see also 5621 line
28746	DAPK2	NM_014326.2	677	atcaactacatctcttaagtg	77972	-	see also 5621 line
28747	DAPK3	NM_001348.1	866	aagatcccaagcggaggaatgacc	77978	-	see also 12539 line
28748	DAPK3	NM_001348.1	603	gggaaacgagttcaagaacatct	77977	-	see also 12539 line
28749	DCAMK1	NM_004734.1	2275	accacgggttaacacatcaagaga	78014	-	see also 3253 line
28750	DCAMK1	NM_004734.1	443	cccagaccgggttcgagatcttttg	77982	-	see also 3253 line
28751	DCAMK1	NM_004734.1	493	ctctgtgggataaacgtgaatttg	77984	-	see also 3253 line
28752	DCK	NM_000788.1	425	ctgaacgatggctcttttaccttc	78023	-	see also 12541 line
28753	DCK	NM_000788.1	842	ttcaagagggtccctatcttaaca	78036	-	see also 12541 line
28754	DDR1	NM_001954.3	1176	ggctatgcaggtccactgtgaaca	78045	-	see also 12542 line
28755	DDR1	NM_001954.3	2491	ctggccacactcaactttgtaca	78054	-	see also 12542 line
28756	DDR2	NM_006182.1	1749	gggtccaaactgcacttacgatcg	78097	-	see also 12543 line
28757	DDR2	NM_006182.1	1180	accgatcagggaatttcactacc	78082	-	see also 12543 line
28758	DDX32	NM_018180.2	1581	aagggtgtacaaccccgagaataag	78143	-	see also 12544 line
28759	DDX32	NM_018180.2	2347	ctcttctgtccggttaacttttg	78160	-	see also 12544 line
28760	DGKE	NM_003647.1	1020	aacaggcaacgatctatccaata	78196	-	see also 2471 line
28761	DGKE	NM_003647.1	138	tgcggacggggcacctgatcttgt	78170	-	see also 2471 line
28762	DGKZ	NM_003646.1	545	aagcgtctcttcgtgaatcagg	78226	-	see also 2467 line
28763	DGUOK	NM_001929.2	228	gcctgcaactgcccaagctcttg	78239	-	see also 1231 line
28764	DKFZp434	C131	93	cacgtacgacgacgggtgtacaagg	78255	-	-
28765	DKFZp434	C131	317	acctgtctcgttcctcatcacc	78258	-	see also 28764 line
28766	DKFZp434	C131	197	acctctcaacggagattgagatc	78257	-	see also 28764 line
28767	DKFZp434	C1418	1192	gacctagcggctcgggaataact	78280	-	see also 10106 line
28768	DKFZp434	C1418	681	tcctcaagaattcgtattgaga	78271	-	see also 10106 line
28769	DKFZp434	C1418	599	tcctcgggaattaaacttacatt	78266	-	see also 10106 line
28770	G2226	NM_031217.2	894	aaggaggacccgattgtagaagg	78312	-	see also 8994 line
28771	G2226	NM_031217.2	130	ttcgtgtacgtccggaaacact	78288	-	see also 8994 line
28772	DKFZp434	G2226	133	gtgtacgtccggaaaaaacactaaa	78289	-	see also 8994 line
28773	A071	NM_152268.2	679	tcctgtggccgagagattttacatg	78376	-	see also 12548 line
28774	DKFZp727	A071	682	gtggccgagagatttttaccatgaag	78378	-	see also 12548 line

826

図46 (続き)

28775	DKFZp761	NM_018423.1	1434	gacgaggctgtgttacagttacc	78412	-	see also 12549 line
28776	DKFZp761	NM_018423.1	1309	gaccagtagctgcacacatacc	78409	-	see also 12549 line
28777	DLAT	NM_001931.2	1307	aacattgtcgggtatttgacaca	78447	-	see also 1233 line
28778	DLAT	NM_001931.2	1304	agcaacattcgtcgggtatttc	78446	-	see also 1233 line
28779	DLAT	NM_001931.2	498	ttccatcggagcgatcatctgt	78424	-	see also 1233 line
28780	DMPK	NM_004409.1	1832	ccctttacacggatttcgaag	78480	-	see also 12551 line
28781	DMPK	NM_004409.1	2265	cagaacttcgcagcaaatcag	78483	-	see also 12551 line
28782	DNAH1	NM_003777.1	7380	ttcogtgcaggggaacaattctt	78656	-	see also 2579 line
28783	DNAH1	NM_003777.1	6178	agccgaaagtctactactgt	78623	-	see also 2579 line
28784	DNAH3	NM_017539.1	8570	agcggatccgggaaggtttatc	79032	-	see also 7017 line
28785	DNAH3	NM_017539.1	5172	tgcagctctcggcgatttacacg	78949	-	see also 7017 line
28786	DNAH5	NM_001369.1	746	aggaacctcaggaactactgact	79129	-	see also 930 line
28787	DNAH5	NM_001369.1	13814	ttcgaacggacttgactacatt	79507	-	see also 930 line
28788	DNAH5	NM_001369.1	9554	cccaactgacgcccaaatcatc	79402	-	see also 930 line
28789	DNAH7	NM_018897.1	12134	gacgaggtgtgacactgttgt	79886	-	see also 12555 line
28790	DNAH7	NM_018897.1	5744	atcgaactcgaataacgtttaaa	79696	-	see also 12555 line
28791	DNAH8	NM_001371.1	9129	ttcgtgccgtctttgaaatt	80144	-	see also 937 line
28792	DNAH9	NM_001372.2	12842	tgtgtgcggatgaataatccta	80506	-	see also 12557 line
28793	DNAH9	NM_001372.2	12757	agcgggtgacagacgaggttaac	80499	-	see also 12557 line
28794	DNCH1	NM_001376.2	1839	tggggccattcgcgaataccaga	80564	-	see also 943 line
28795	DNCH1	NM_001376.2	9998	tgcgtctgtgacttgaggataag	80741	-	see also 943 line
28796	DNCL2	NM_006141.2	1271	aagccggaccccaaatcaaaaa	80834	-	see also 12559 line
28797	DNCL2	NM_006141.2	1249	ctccacggcagcgaatgaataaa	80832	-	see also 12559 line
28798	DNCL2	NM_006141.2	236	acctcatgactaaactacacagg	80816	-	see also 12559 line
28799	DPCK	NM_025233.3	204	ctggtgaatcacacactctatgt	80839	-	see also 8886 line
28800	DPCK	NM_025233.3	1112	cagcttcgcgcaggaatgttgg	80847	-	see also 8886 line
28801	DQX1	NM_133637.1	592	gagcggctcggggcactcagattc	80861	-	see also 9590 line
28802	DQX1	NM_133637.1	562	tggggcgtgtgtgtactataga	80859	-	see also 9590 line
28803	DTYMK	NM_012145.1	297	gaccctcgtgtgagacagatacg	80898	-	see also 12562 line
28804	DTYMK	NM_012145.1	140	tgcctcgggtccgggaagatca	80887	-	see also 12562 line
28805	DTYMK	NM_012145.1	263	tgcgttaataaggaaaagtgtg	80896	-	see also 12562 line
28806	DYRK1A	NM_001396.2	1407	tacggtcgtgactacttgaagt	80949	-	see also 960 line
28807	DYRK1A	NM_001396.2	902	ttgcgaotccagaaacttagatc	80931	-	see also 960 line
28808	DYRK1B	NM_004714.1	1728	accgtacagcaaacacatttgt	80986	-	see also 3235 line
28809	DYRK1B	NM_004714.1	598	ctggctggagcgctacgaattg	80976	-	see also 3235 line
28810	DYRK2	NM_003583.2	1680	accgtgtctatcacacttatatc	81012	-	see also 12564 line
28811	DYRK2	NM_003583.2	720	gtcaaggctacgtacacaaagt	80995	-	see also 12564 line
28812	DYRK3	NM_003582.1	747	acctgagaccatagcttcttc	81029	-	see also 12565 line
28813	DYRK3	NM_003582.1	1547	gtcgtctacgttaggtgtaaaaag	81050	-	see also 12565 line
28814	DYRK4	NM_003845.1	1700	aacgtttaccctctattgtatg	81096	-	see also 12566 line
28815	DYRK4	NM_003845.1	377	ctgcacacggctcctcagaatt	81071	-	see also 12566 line
28816	DY1	NM_000113.1	1002	aacgggttccacaaagttagatt	81118	-	see also 96 line

図46 (続き)

28817	DY1	NM_000113.1	354	aggacacggcaaaaatttcgtca	81100	-	see also 96 line
28818	EGFR	NM_005228.2	2387	ccgctcgtatcatcaaggaataag	81171	-	see also 12568 line
28819	EGFR	NM_005228.2	1128	acggcgtccgcaagtgttaagaag	81140	-	see also 12568 line
28820	EHD4	NM_139265.2	1416	tacactctgtccgccatcaatgg	81209	-	see also 12569 line
28821	EHD4	NM_139265.2	1059	aggctaacggaaatctacattca	81206	-	see also 12569 line
28822	EIF2AK3	NM_004836.2	600	cgcgcagagcttaagtaattat	81211	-	see also 3353 line
28823	EIF2AK3	NM_004836.2	959	ttgtcccaatgggatagtgacg	81220	-	see also 3353 line
28824	EPB42	NM_000119.1	1441	accggtgggctgtcttcattaga	81299	-	see also 12571 line
28825	EPB42	NM_000119.1	2028	ctcagtgtacgtgtgttaatacaca	81306	-	see also 12571 line
28826	EPHA1	NM_005232.2	2168	agcgaagacccgcatcatcatc	81329	-	see also 3668 line
28827	EPHA2	NM_004431.2	401	aggagagcctgagcgtatcttca	81337	-	see also 12573 line
28828	EPHA2	NM_004431.2	1844	gtcccccggagacgttactct	81352	-	see also 12573 line
28829	EPHA3	NM_005233.3	1538	cacgtgtcctgacgattagaaga	81401	-	see also 12574 line
28830	EPHA3	NM_005233.3	1503	tgcggtcagcatcacactaatc	81398	-	see also 12574 line
28831	EPHA3	NM_005233.3	1539	acctctcgtacgattagaagaag	81402	-	see also 12574 line
28832	EPHA4	NM_004438.2	121	ccgcggaatgaagtacctatt	81447	-	see also 2970 line
28833	EPHA4	NM_004438.2	551	tccgggatgtaggcccatgaagc	81458	-	see also 2970 line
28834	EPHA5	NM_004439.3	1585	gaccagctacacgattataaat	81527	-	see also 2972 line
28835	EPHA5	NM_004439.3	1338	atctactcgtctcacacaaactat	81520	-	see also 2972 line
28836	EPHA7	NM_004440.2	1430	tagccacgcgttaattactttt	81594	-	see also 2974 line
28837	EPHA7	NM_004440.2	1049	tggcgcgtgggtttcacagttc	81580	-	see also 2974 line
28838	EPHA8	NM_020526.2	699	ctctccgcatctactataagaag	81644	-	see also 7887 line
28839	EPHA8	NM_020526.2	697	ctctctccgcatctactataaga	81643	-	see also 7887 line
28840	EPHB1	NM_004441.2	1117	cacctgtcggcagcggttattacc	81667	-	see also 2980 line
28841	EPHB1	NM_004441.2	1183	atcaggtcccgccgcaatgttatct	81668	-	see also 2980 line
28842	EPHB1	NM_004441.2	712	gctcttactcgtgaatggtttt	81660	-	see also 2980 line
28843	EPHB2	NM_004442.4	479	gcgcgctcatgaaatacaacacc	81696	-	see also 12580 line
28844	EPHB2	NM_004442.4	1135	accgctgcgggggacaatgtaca	81701	-	see also 12580 line
28845	EPHB3	NM_004443.3	709	ggcttcgcacggggttcctcgg	81723	-	see also 12581 line
28846	EPHB3	NM_004443.3	3278	cagtgccggggttgcatcttttg	81738	-	see also 12581 line
28847	EPHB4	NM_004444.3	2209	gtctctcactcgtcaagattgaaga	81749	-	see also 12582 line
28848	EPHB4	NM_004444.3	1239	ccagccaatagccactcaaca	81741	-	see also 12582 line
28849	EPHB4	NM_004444.3	2146	atcgacccttcactatgaaga	81747	-	see also 12582 line
28850	EPHB6	NM_004445.1	2667	aggactcggggtgaagtattaca	81772	-	see also 12583 line
28851	EPHB6	NM_004445.1	2666	caggactcggggtgaagtattac	81771	-	see also 12583 line
28852	EPBS	NM_004446.1	3323	ttctactactcgtgtaattct	81878	-	see also 12584 line
28853	EPBS	NM_004446.1	2343	gggaggtgttgttaagctaaaa	81844	-	see also 12584 line
28854	ERBB2	NM_004448.1	3684	tggggtgtcaagacggttttg	81943	-	see also 12585 line
28855	ERBB2	NM_004448.1	506	atggagaccctgtaacaatacc	81923	-	see also 12585 line
28856	ERBB3	NM_001982.1	1629	tacggaagagcagacatcacatca	81971	-	see also 12586 line
28857	ERBB3	NM_001982.1	2220	aagggtctatgaggatatttg	81983	-	see also 12586 line
28858	ERBB3	NM_001982.1	2928	gocctatgcagggtacogattgg	82002	-	see also 12586 line
28859	ERBB4	NM_005235.1	2567	cagcccgtaagtgttagtgaaa	82083	-	see also 12587 line
28860	ERBB4	NM_005235.1	331	ggagaatttaacgcattatctgtgg	82029	-	see also 12587 line

図46 (続き)

828

28861	ERK8	NM_139021.1	60	ccattgtcggagatacctact	82121	-	see also 12588 line
28862	ERK8	NM_139021.1	238	ttggggaccatcccaacatc	82122	-	see also 12588 line
28863	FER	NM_005246.1	2565	agcaocgggaagctcttaattatg	82188	-	see also 3686 line
28864	FER	NM_005246.1	1314	aacgttagcgaagaacttatgc	82152	-	see also 3686 line
28865	FES	NM_002005.2	1782	ggggaaactttggcggaagtgtca	82201	-	see also 12590 line
28866	FES	NM_002005.2	149	gtctactggaggcagagaaag	82199	-	see also 12590 line
28867	FGFR1	NM_000604.2	1282	cccaactgcgtggttgaaaaa	82207	-	see also 414 line
28868	FGFR1	NM_000604.2	1284	cacactgcgtggttgaaaaatg	82208	-	see also 414 line
28869	FGFR2	NM_000141.2	1153	aaccatgcgtggttgaaaaacg	82235	-	see also 127 line
28870	FGFR2	NM_000141.2	1318	cacgtaccacctggtatgtgtgg	82237	-	see also 127 line
28871	FGFR2	NM_000141.2	658	gocctcctgagtttagtgagg	82228	-	see also 127 line
28872	FGFR3	NM_000142.2	504	gcccagcggatggacaagaagc	82276	-	see also 12591 line
28873	FGFR3	NM_000142.2	2198	cacagaccctgacatgacatg	82281	-	see also 12591 line
28874	FGFR4	NM_002011.2	1498	ggcctcgtgagctagatctacc	82287	-	see also 12592 line
28875	FGFR4	NM_002011.2	645	tgcggggaacacccgtcaagttcc	82283	-	see also 12592 line
28876	FGR	NM_005248.1	720	aggcgatcatgtgaagcattaca	82293	-	see also 12593 line
28877	FGR	NM_005248.1	777	caccacacgggtcagttcaact	82295	-	see also 12593 line
28878	FIGN	NM_018086.1	1963	ttgagggccgttacatataaga	82358	-	see also 7237 line
28879	FIGN1	NM_022116.2	2231	atcaagttcgaccatagcttac	82424	-	see also 8278 line
28880	FIGN1	NM_022116.2	1306	aagtctctaggagctagtagatc	82392	-	see also 8278 line
28881	FLJ10074	NM_017988.2	99	cccttgcgggttggtgaattca	82431	-	see also 12596 line
28882	FLJ10074	NM_017988.2	98	tccttgcgggttggtgaattc	82430	-	see also 12596 line
28883	FLJ10326	NM_018060.2	825	tacgtactgcggcagataaaagt	82497	-	see also 7221 line
28884	FLJ10326	NM_018060.2	2413	tcgtactgggtgggttagtagt	82555	-	see also 7221 line
28885	FLJ10496	NM_018114.3	847	ggcgctgccttggtgtacatgt	82576	-	see also 12598 line
28886	FLJ10496	NM_018114.3	1218	gagtggaacctttgtcatgtata	82580	-	see also 12598 line
28887	FLJ10514	NM_018122.3	1971	aaggcccgtagcccaacactaga	82623	-	see also 7266 line
28888	FLJ10514	NM_018122.3	2018	aggaggttggttcaattcgaattc	82629	-	see also 7266 line
28889	FLJ10709	NM_018188.1	375	aacagtcacaagctcaaaagagt	82641	-	see also 12600 line
28890	FLJ10774	NM_024662.1	3145	ggcgaacgcctcgcgtcctcagc	82688	-	see also 8690 line
28891	FLJ10774	NM_024662.1	2309	gctgtccgaacgcctggtattacc	82675	-	see also 8690 line
28892	FLJ12118	NM_024537.1	565	ctgtggggaacgcttattcaacg	82704	-	see also 12602 line
28893	FLJ12118	NM_024537.1	796	ctgcctcgtcgtatgtatgtatt	82706	-	see also 12602 line
28894	FLJ12528	NM_025150.3	2051	aacattggactcagataaatog	82748	-	see also 12603 line
28895	FLJ12528	NM_025150.3	177	aaccocggactattaaagataca	82722	-	see also 12603 line
28896	FLJ12735	NM_024857.3	3664	ctcgggtgcgactagacttaag	82837	-	see also 12604 line
28897	FLJ12735	NM_024857.3	401	tgcgagatgagccactgcaaaa	82749	-	see also 12604 line
28898	FLJ12969	NM_022838.1	921	ccctcggcagaaacgcagtagt	82915	-	see also 12605 line
28899	FLJ12969	NM_022838.1	1582	ttgcctccttaagtaactaag	82928	-	see also 12605 line
28900	FLJ13490	NM_024942.1	340	atcgtctatttggcattttaag	82954	-	see also 12606 line
28901	FLJ13490	NM_024942.1	1357	cccaactggatacctctaagaca	82962	-	see also 12606 line
28902	FLJ14600	NM_032810.2	1104	accttgaactggctataataga	82985	-	see also 9292 line
28903	FLJ14600	NM_032810.2	969	ttctaagaaacctgtcaagttct	82982	-	see also 9292 line
28904	FLJ14813	NM_032844.1	710	agctcgtgggatttaacacacc	83008	-	see also 9309 line

829

図46 (続き)

28905	FLJ14813	NM_032844.1	1123	tgcattgagacaaaaggttca	83023	-	see also 9309 line
28906	FLJ14813	NM_032844.1	836	aaggacactacgcttattctag	83013	-	see also 9309 line
28907	FLJ20245	NM_017723.1	775	cgcgtctgtctgaataaccatg	83065	-	see also 12609 line
28908	FLJ20245	NM_017723.1	772	cagcgcgtctgtctgaataacc	83064	-	see also 12609 line
28909	FLJ20559	NM_017881.1	594	gaggagtcacaaggctctatcagc	83078	-	see also 12610 line
28910	FLJ20559	NM_017881.1	618	tccagactctccgggatacttg	83079	-	see also 12610 line
28911	FLJ20574	NM_017886.1	252	tccgtctaccccgtaataaaa	83094	-	see also 12611 line
28912	FLJ20574	NM_017886.1	174	ggcgacggaagggaacaatcaat	83088	-	see also 12611 line
28913	FLJ20804	NM_017897.1	668	ggcaggttagcattctgataaaa	83137	-	see also 12612 line
28914	FLJ20804	NM_017897.1	880	aagtggcattctggaccatttca	83148	-	see also 12612 line
28915	FLJ21019	NM_024927.3	1554	tgcctcgtctggcggagatttcc	83165	-	see also 12613 line
28916	FLJ21019	NM_024927.3	1849	ctcggggtaggactatgtctgc	83168	-	see also 12613 line
28917	FLJ22002	NM_024838.3	1702	ttcgcatacttgatctgttta	83217	-	see also 8780 line
28918	FLJ22002	NM_024838.3	1817	atgggaatcccgatcgaaaatt	83225	-	see also 8780 line
28919	FLJ22002	NM_024838.3	1539	cagtggtgtgagtcagatttt	83213	-	see also 8780 line
28920	FLJ22761	NM_025130.2	1785	cagtgcgaaatgtacacaagatc	83265	-	see also 12615 line
28921	FLJ22761	NM_025130.2	464	ttctacccaacgcccgaatgaaat	83250	-	see also 12615 line
28922	FLJ22865	NM_025109.3	934	atgctgtacactgaggaaataac	83279	-	see also 8864 line
28923	FLJ22865	NM_025109.3	935	tgcgtgtacactgaggaaataaca	83280	-	see also 8864 line
28924	FLJ22955	NM_024819.3	628	aggacacccgttgtagtactatgc	83305	-	see also 12617 line
28925	FLJ22955	NM_024819.3	452	ggggacactgatttttaaccagc	83303	-	see also 12617 line
28926	FLJ23074	NM_025052.1	454	gtgtgtacatcgcgatacaaa	83311	-	see also 12618 line
28927	FLJ23074	NM_025052.1	463	atcgcgatatcaaaaggaaataat	83314	-	see also 12618 line
28928	FLJ23356	NM_032237.2	711	cccttaggttcttgagtaacc	83328	-	see also 9128 line
28929	FLJ23356	NM_032237.2	1074	ggcctcatatgatggaagattg	83331	-	see also 9128 line
28930	FLJ23441	NM_024678.3	300	cgcgagtgaggagcgcattaaaga	83340	-	see also 12620 line
28931	FLJ23441	NM_024678.3	630	gactaacgttctgggtctctat	83350	-	see also 12620 line
28932	FLJ23441	NM_024678.3	903	tccgacctccggagctgaaaaatt	83357	-	see also 12620 line
28933	FLJ25005	NM_152334.2	1048	caggtgcggtccattaatgacc	83391	-	see also 12621 line
28934	FLJ25005	NM_152334.2	629	ctggctgaagcagcaggttaatgc	83381	-	see also 12621 line
28935	FLJ25006	NM_144610.1	562	aacggcacctttctattatgtgt	83433	-	see also 12622 line
28936	FLJ25006	NM_144610.1	802	ggagtcacgctacacactatctgt	83436	-	see also 12622 line
28937	FLJ31364	NM_152463.1	1700	cggcgcattggaccagacactatc	83459	-	see also 12623 line
28938	FLJ31364	NM_152463.1	1701	ggcgcattggaccagacactatcc	83460	-	see also 12623 line
28939	FLJ32685	NM_152534.1	592	aagacgcacacaaaaggatttta	83476	-	see also 12624 line
28940	FLJ32685	NM_152534.1	594	ggcgacacaaaaggattttatg	83477	-	see also 12624 line
28941	FLJ32704	NM_152572.2	1288	ggcattgtggaagcttcttacc	83490	-	see also 12625 line
28942	FLJ32704	NM_152572.2	1952	atcgagagtgaggatcattatcc	83499	-	see also 12625 line
28943	FLJ32704	NM_152572.2	1929	accatacacagtcttctgaataac	83497	-	see also 12625 line
28944	FLJ32818	NM_144685.3	1429	cccgctgtggcggcagagatgg	83502	-	kinase_related
28945	FLJ32818	NM_144685.3	521	tccatgacgcccctcaagtctac	83500	-	see also 28944 line
28946	FLJ32818	NM_144685.3	1150	gaccagattggacagatgaatgg	83501	-	see also 28944 line
28947	FLJ34389	NM_152649.1	1149	ggctggcagattggcaatagga	83526	-	see also 12626 line
28948	FLJ34389	NM_152649.1	1669	atcccggttcaagggtgtaattc	83538	-	see also 12626 line

830

図46 (続き)

28949	FLJ37300	NM_153209.1	859	cgcgctcgcagacacagaatcg	83546	-	see also 12627 line
28950	FLJ37300	NM_153209.1	646	accgaagtctccaccatcaatgc	83543	-	see also 12627 line
28951	FLT1	NM_002019.2	1338	ctcgccggaagtgtgtatggttaa	83585	-	see also 12628 line
28952	FLT1	NM_002019.2	1077	ttccgtaaggcgcacgaattgacc	83572	-	see also 12628 line
28953	FLT1	NM_002019.2	1334	ttccctcgcgcggaagtgtgtatg	83584	-	see also 12628 line
28954	FLT3	NM_004119.1	593	agggaagccctggtctgcatact	83665	-	see also 2784 line
28955	FLT4	NM_002020.1	781	gtgtgggctgagtttaactcagg	83752	-	see also 12630 line
28956	FLT4	NM_002020.1	342	cagctactgtctactacaagt	83748	-	see also 12630 line
28957	FPGS	NM_004957.2	386	tggcctgaagcagcgaggtcttta	83768	-	see also 12631 line
28958	FPGS	NM_004957.2	387	ggcctgaagcagcgaggtcttta	83769	-	see also 12631 line
28959	FRK	NM_002031.2	1866	gcctaagggaacgacactacattg	83821	-	see also 12632 line
28960	FRK	NM_002031.2	1526	tcctcgttgtgtaacataatc	83805	-	see also 12632 line
28961	FRK	NM_002031.2	1650	gccgaagccattcgttagtaata	83810	-	see also 12632 line
28962	FTFSDC	NM_015440.3	559	gcccgttcttgcgaattatccagg	83824	-	see also 6417 line
28963	FTFSDC	NM_015440.3	580	ggcaggtgacacacacttgatgc	83826	-	see also 6417 line
28964	FUK	NM_145059.1	2940	cagcctgtgtagcgcaactgagg	83869	-	see also 12634 line
28965	FUK	NM_145059.1	936	tgcagatgtagcgggttatctgc	83865	-	see also 12634 line
28966	FYN	NM_002037.3	1804	ttcggattggcccgatgataga	83898	-	see also 1316 line
GABARAP							
28967	L2	NM_007285.6	190	cgcggaagattcgcagcgaatc	83909	-	see also 12636 line
GABARAP							
28968	L2	NM_007285.6	403	aactatgggacagattacgaga	83914	-	see also 12636 line
28969	GAK	NM_005255.1	799	gcgaaccttgaatagtaatgg	83941	-	see also 12637 line
28970	GAK	NM_005255.1	795	tggagcgaacctcgaatagta	83938	-	see also 12637 line
28971	GALK1	NM_000154.1	372	tcctcgtgtggcccaactatgca	83971	-	see also 12638 line
28972	GALK1	NM_000154.1	617	tggaccattcattcactatg	83974	-	see also 12638 line
28973	GALK2	NM_002044.1	646	ctctgaggcgaacagatgtaaa	84002	-	see also 1319 line
28974	GALK2	NM_002044.1	1037	tgcgcgagtgctccagtttaaga	84014	-	see also 1319 line
28975	GARS	NM_002047.1	1505	cggacagtcctcctcgggaatgc	84042	-	see also 1320 line
28976	GARS	NM_002047.1	1710	tcctacgttggttgagattgt	84046	-	see also 1320 line
28977	GCK	NM_000162.2	1671	ggccgcagcgcggagcgtatgc	84071	-	see also 12641 line
28978	GCK	NM_000162.2	1407	caggctcgtggacgaacacgtgc	84068	-	see also 12641 line
28979	GK	NM_000167.1	1486	ctcgaacccgaggattgtctgc	84072	-	kinase_related
28980	GK2	NM_033214.1	242	ttgacggaactgaatattgata	84074	-	see also 12642 line
28981	GK2	NM_033214.1	1643	tgctaattggacgaagatatgc	84091	-	see also 12642 line
28982	GMPS	NM_003875.1	824	aggcagctcaaaagtgtgtgtt	84117	-	see also 12643 line
28983	GMPS	NM_003875.1	816	ggagagtaggcagcgtcaaaagt	84115	-	see also 12643 line
28984	GMPS	NM_003875.1	818	ggagtaggcagcgtcaaaagt	84116	-	see also 12643 line
28985	GNE	NM_005476.3	1374	ggcgaacctccaggtgcaatag	84184	-	see also 12644 line
28986	GNE	NM_005476.3	1240	aagtttccaatctatgatct	84181	-	see also 12644 line
28987	GPRK2L	NM_005307.1	1189	aggaggtcgatcaagaatcaag	84242	-	see also 12645 line
28988	GPRK2L	NM_005307.1	536	aaggcaaccgtaacaagaaca	84221	-	see also 12645 line
28989	GPRK5	NM_005308.1	1138	caccgtaccagatctgaac	84269	-	see also 12646 line
28990	GPRK5	NM_005308.1	1100	ggagatcctctgcggcttagaaga	84268	-	see also 12646 line

831

図46 (続き)

28991	GPRK6	NM_002082.1	201	ctcagcctcagcgtgactatca	84284	-	see also 1347 line
28992	GPRK7	NM_139209.1	1063	ctcgcaactcaggttatctga	84298	-	see also 12648 line
28993	GPRK7	NM_139209.1	1061	acctggcaactcaggttatct	84297	-	see also 12648 line
28994	GSG2	NM_031965.1	2217	aacaaccgtctgggtgaatatca	84353	-	see also 12649 line
28995	GSG2	NM_031965.1	57	agccgctttccgcacatatag	84313	-	see also 12649 line
28996	GSK3A	NM_019884.1	1477	accctgctctcacagctttaac	84369	-	see also 12650 line
28997	GSK3A	NM_019884.1	463	gtgcttacacgacacataaagt	84359	-	see also 12650 line
28998	GSK3B	NM_002093.2	1223	agccgtctcgtgagtatcaacc	84391	-	see also 1357 line
28999	GSK3B	NM_002093.2	683	cagacgctccctgtgatttatg	84380	-	see also 1357 line
29000	GSS	NM_000178.2	1330	cccgagtggtccagtgcatttca	84411	-	see also 12652 line
29001	GSS	NM_000178.2	1151	ccctagccgggttgctctaaagc	84410	-	see also 12652 line
29002	GUCY2C	NM_004963.1	2342	tcctgagctctacagcttatctt	84476	-	see also 12653 line
29003	GUCY2C	NM_004963.1	1233	gacctatgatccacagtaata	84442	-	see also 12653 line
29004	GUCY2C	NM_004963.1	2341	atccgagctctacagcttatct	84475	-	see also 12653 line
29005	GUCY2D	NM_000180.1	1414	ctcgtgctgtctgctgctcaaca	84503	-	see also 12654 line
29006	GUCY2D	NM_000180.1	2848	gacataggggagccctatatgg	84517	-	see also 12654 line
29007	GUCY2F	NM_001522.1	3222	gtgcgggtccgaattcgaattgg	84594	-	see also 12655 line
29008	GUCY2F	NM_001522.1	1374	atgcacaagccatgaataatgc	84547	-	see also 12655 line
29009	GUJ1	NM_000858.3	360	aacggcaagattactactttgt	84601	-	see also 12656 line
29010	GUJ1	NM_000858.3	763	agcgctctctgaggaatacaag	84604	-	see also 12656 line
29011	HAK	NM_052947.1	4331	tcctcagcctcgtgagcaaatatc	84673	-	see also 12657 line
29012	HAK	NM_052947.1	3929	gtgcgcagatctactaaaggatg	84668	-	see also 12657 line
29013	HAK	NM_052947.1	4330	atccatcggtcgtgagcaaatat	84672	-	see also 12657 line
29014	HARS	NM_002109.3	716	aacgatagacattctagatagg	84696	-	see also 12658 line
29015	HARS	NM_002109.3	1054	tgtctggggctggattactaca	84702	-	see also 12658 line
29016	HARSL	NM_012208.2	756	tggtagtttgacctatgatcc	84713	-	see also 12659 line
29017	HARSL	NM_012208.2	688	cggcagagagagcccaaccatagt	84712	-	see also 12659 line
29018	HCK	NM_002110.2	259	ctccaggtctgagaggcaatacatt	84732	-	see also 1360 line
29019	HCK	NM_002110.2	265	gtcggaggaatacaattctcaaa	84734	-	see also 1360 line
29020	HCK	NM_002110.2	1341	tgcattccctgggtgtaagattg	84741	-	see also 1360 line
29021	HEAB	NM_006831.1	1618	gagcgtatccgtgagctatttta	84760	-	see also 12660 line
29022	HEAB	NM_006831.1	1616	atgagcgtatccgtgagctatttt	84759	-	see also 12660 line
29023	HIPK2	NM_022740.1	1102	ctggttgatccatctagacaacc	84780	-	see also 8444 line
29024	HIPK2	NM_022740.1	432	cggcggagcaacacacctaattgc	84769	-	see also 8444 line
29025	HIPK3	NM_005734.2	3119	tgggtactgtcagcaaaaattg	84902	-	see also 3977 line
29026	HIPK3	NM_005734.2	2803	aagagaccgaatagtatgtcaga	84892	-	see also 3977 line
29027	HK1	NM_000188.1	1310	ttagttctcagcagatctotttac	84935	-	see also 157 line
29028	HK1	NM_000188.1	2449	atcgagatgaccgattagcact	84957	-	see also 157 line
29029	HK2	NM_000189.4	4187	tccgttaacattctcgcattttc	84979	-	see also 12664 line
29030	HK2	NM_000189.4	3134	aggagcggctcgcgtctactatt	84971	-	see also 12664 line
29031	HK3	NM_002115.1	2349	atgctccgccacatcttttaca	84999	-	see also 12665 line
29032	HK3	NM_002115.1	1310	cagccggaggagcaacacacctcc	84994	-	see also 12665 line
29033	HRI	NM_014413.2	167	ccccgaatatgaagaatctgatg	85004	-	see also 12666 line
29034	HRI	NM_014413.2	1696	tgcgggaatccctccgtaaaagg	85052	-	see also 12666 line

図46 (続き)

832

29035	HR1	NM_014413.2	168	ccgaatatgacgaatctgatgt	85005	-	see also 12666 line
29036	HSA25083	NM_018401.1	754	cacgccatcgatgaatctctca	85068	-	see also 12667 line
29037	HSA25083	NM_018401.1	560	aacatagcgcggtagtgaagg	85063	-	see also 12667 line
29038	HSP70-4	NM_016299.1	309	tacatcgaggaaagtaaatgtt	85081	-	see also 6790 line
29039	HSP70-4	NM_016299.1	823	atgogagccgatgatgaatta	85095	-	see also 6790 line
29040	HSPA12B	NM_052970.3	2135	cgcggtccatgcacttcttc	85124	-	see also 9473 line
29041	HSPA12B	NM_052970.3	2080	tggcgacacccgaatttaaggcca	85123	-	see also 9473 line
29042	HSPA1L	NM_005527.2	521	tctgatgtattgactaatgtga	85137	-	see also 12670 line
29043	HSPA1L	NM_005527.2	373	aacgtctgatcgccaggaattt	85128	-	see also 12670 line
29044	HSPA2	NM_021979.2	1220	atctcatcgccgacaaatcaga	85161	-	see also 12671 line
29045	HSPA2	NM_021979.2	492	aggtgcacagcgcggtctc'aacgc	85160	-	see also 12671 line
29046	HSPA4	NM_002154.3	2759	gccttcgaggtacgaacaagaagc	85216	-	see also 1384 line
29047	HSPA5	NM_005347.2	1293	tggctcgactcgaattccaaaga	85235	-	see also 3732 line
29048	HSPA5	NM_005347.2	928	ttcgaagtgtggccactaatgg	85226	-	see also 3732 line
29049	HSPA6	NM_002155.2	415	gccaaagtgccgctatgctacc	85245	-	see also 12674 line
29050	HSPA6	NM_002155.2	746	tccattgacgtgggtcttga	85246	-	see also 12674 line
29051	HSPA8	NM_006597.3	970	accgattgccgatttgaagaact	85263	-	see also 12675 line
29052	HSPA8	NM_006597.3	620	tgtctacggcttagacaaaag	85254	-	see also 12675 line
29053	HSPA9B	NM_004134.4	948	ggccttgctacggcacatttga	85288	-	see also 2791 line
29054	HSPA9B	NM_004134.4	192	tagctggaatggccttaagtcag	85272	-	see also 2791 line
29055	HSPCB	NM_007355.2	2117	acgcgactatcgctgatgcaag	85320	-	see also 12677 line
29056	HSPCB	NM_007355.2	200	tccttggggagttgattctctaat	85293	-	see also 12677 line
29057	HSPD1	NM_002156.3	283	ctgttcgaagtcgaatgaactta	85325	-	see also 12678 line
29058	HSPD1	NM_002156.3	279	gtgactgttgcaaaatgaattga	85324	-	see also 12678 line
29059	HSPH1	NM_006644.1	490	tgcacaacatacaggtgtctaat	85332	-	see also 4696 line
29060	HSPH1	NM_006644.1	410	cgggtgcccccgcgctcgtatc	85327	-	see also 4696 line
29061	HUNK	NM_014586.1	1305	ggcgaatcgctggcttaatgaga	85389	-	see also 12680 line
29062	HUNK	NM_014586.1	1303	ctgcggaatcgctggcttaatga	85388	-	see also 12680 line
29063	HYOU1	NM_006389.2	427	tccaaaggctacgtactgtact	85421	-	see also 12681 line
29064	HYOU1	NM_006389.2	1083	gtgaggctaatcggtctcaaaacc	85434	-	see also 12681 line
29065	IARS	NM_002161.2	1080	atcgggtctgtatggacttaac	85490	-	see also 1386 line
29066	IARS	NM_002161.2	3050	gtcataatcgctacacagaact	85556	-	see also 1386 line
29067	ICK	NM_014920.2	785	ggcccgagaaatacagatcaaaac	85594	-	see also 6094 line
29068	ICK	NM_014920.2	786	ggccgagaaatacagatcaaaac	85595	-	see also 6094 line
29069	ICK	NM_014920.2	705	ggcttcttcacgtgagacttaa	85592	-	see also 6094 line
29070	IDH3G	NM_004135.2	556	ctgcacacgtcgacacaatctcg	85633	-	see also 2792 line
29071	IDH3G	NM_004135.2	448	gagggtcacgtgaggtccaatgc	85630	-	see also 2792 line
29072	IGF1R	NM_000875.2	279	cacggtattacccgagtcttgc	85645	-	see also 566 line
29073	KBKE	NM_014002.1	2433	atcatcgaacggctaaatagagt	85709	-	see also 12686 line
29074	KBKE	NM_014002.1	1546	acctgcagcgggattacaacact	85706	-	see also 12686 line
29075	ILK	NM_004517.1	1112	cactcaatagccgtagttaatg	85729	-	see also 3065 line
29076	ILK	NM_004517.1	972	gocgtatggatccctctcaatg	85724	-	see also 3065 line
29077	ILK	NM_004517.1	744	gacgaagctaacgagatcact	85720	-	see also 3065 line
29078	IMMP2L	NM_032549.1	655	tacaccgtgtgacattgtatca	85738	-	see also 12688 line

833

図46 (続き)

29079	IMMP2L	NM_032549.1	540	gtgcctgtgtggcagagtaga	85736	-	see also 12688 line
29080	IMMP2L	NM_032549.1	461	gtgggtgaaagatacatcaagg	85735	-	see also 12688 line
29081	INSR	NM_000208.1	2952	acgtccctgcaaatattgcaaaa	85788	-	see also 12690 line
29082	INSR	NM_000208.1	3602	atggtcccatgatttaattgt	85796	-	see also 12690 line
29083	INSR	NM_000208.1	439	atcagcactgttttaactacg	85748	-	see also 12690 line
29084	INSRR	NM_014215.1	1180	cocgtaatagcagcagcatttc	85805	-	see also 5539 line
29085	INSRR	NM_014215.1	3179	tcggagcagatctcgataatcc	85819	-	see also 5539 line
29086	IPT	NM_017646.3	1237	gcgaatggcagcgacacataaaa	85859	-	see also 7075 line
29087	IPT	NM_017646.3	1202	gtgtgacctctgtgatgaatca	85858	-	see also 7075 line
29088	IRAK1	NM_001569.2	2046	agccacccagattatcaaac	85869	-	see also 12693 line
29089	IRAK1	NM_001569.2	2041	gtcagagccaccgcagattatca	85868	-	see also 12693 line
29090	IRAK1	NM_001569.2	1358	cacgtgcccaggacaaagtatct	85866	-	see also 12693 line
29091	IRAK2	NM_001570.2	1009	agcaagctcaagagctcaatgt	85888	-	see also 12694 line
29092	IRAK2	NM_001570.2	746	gtccaggatcaatcgaaagatttc	85882	-	see also 12694 line
29093	IRAK3	NM_007199.1	856	cacattggaatcggttatatt	85922	-	see also 5001 line
29094	IRAK3	NM_007199.1	347	atgtcgagctattcatttaatt	85905	-	see also 5001 line
29095	IRAK3	NM_007199.1	1720	gacttaaggccctataaaggtaaa	85950	-	see also 5001 line
29096	IRAK4	NM_016123.1	264	ttgactggggcaccacaaattgc	85957	-	see also 12696 line
29097	IRAK4	NM_016123.1	1215	aacacccgtgaacctcagttatg	85982	-	see also 12696 line
29098	ITGB1BP3	NM_014446.1	211	tgggggaagaaaggccttcaaacagt	85992	-	see also 12697 line
29099	ITGB1BP3	NM_014446.1	290	ctgagcagcccgacagaagtgttc	85993	-	see also 12697 line
29100	ITK	NM_005546.3	1798	taccggatttcggtgtacagc	86034	-	see also 12698 line
29101	ITK	NM_005546.3	980	gacaatcctaaggatatactatgt	86022	-	see also 12698 line
29102	ITK	NM_005546.3	1836	cacagctacacagattatgaat	86035	-	see also 12698 line
29103	JAK1	NM_002227.1	355	cactaccggatgagggtctattt	86042	-	see also 1417 line
29104	JAK1	NM_002227.1	2509	atgacccctctgcatgaactatga	86091	-	see also 1417 line
29105	JAK2	NM_004972.2	3251	tgtgtctggcgtaactataaat	86196	-	see also 3454 line
29106	JAK2	NM_004972.2	3250	gtgtgtgtcggcgtaactataaaa	86195	-	see also 3454 line
29107	JAK2	NM_004972.2	3253	ctgttcggcgtatctataaatta	86197	-	see also 3454 line
29108	JAK3	NM_000215.1	3017	gcccgttgacaaaagactactacg	86247	-	see also 12700 line
29109	JAK3	NM_000215.1	1036	agcaocgcctgtgtaactgttacc	86236	-	see also 12700 line
29110	JFC1	NM_032872.1	1453	ccttgacacttactgataatgc	86253	-	-
29111	JFC1	NM_032872.1	575	gcccaggctcaccattgatgagg	86251	-	see also 29110 line
29112	JFC1	NM_032872.1	1215	atcttctggcgaaagtgaagt	86252	-	see also 29110 line
29113	JIK	NM_016281.2	1004	tcccaaatgttaactatga	86275	-	see also 12701 line
29114	JIK	NM_016281.2	1466	tccttcgtctgataaagaaga	86285	-	see also 12701 line
29115	KATNA1	NM_007044.2	1154	gacgacgcttgagaaacgaatc	86344	-	see also 4933 line
29116	KATNA1	NM_007044.2	594	tagtaccggatataaagaact	86332	-	see also 4933 line
29117	KCNJ1	NM_000220.2	611	aacgtgccaagaccattacgttc	86371	-	see also 165 line
29118	KCNJ1	NM_000220.2	973	tgcgaagtccggacaactctatgt	86377	-	see also 165 line
29119	KCNJ10	NM_002241.2	748	agcggcctgagacattcgttc	86388	-	see also 12704 line
29120	KCNJ10	NM_002241.2	305	acggcggagagctctgacaaaag	86386	-	see also 12704 line
29121	KDR	NM_002253.1	952	gtcgttgatagtagatttta	86407	-	see also 12705 line
29122	KDR	NM_002253.1	990	tccgtctcatggaattgaactat	86411	-	see also 12705 line

834

図46 (続き)

29123	KIAA0195	NM_014738.1	4179	atcgtgaagctaatgagattcg	86481	-	see also 5927 line
29124	KIAA0195	NM_014738.1	778	ctggccaggaatcttggcttct	86468	-	see also 5927 line
29125	KIAA0703	NM_014861.1	3234	ttggccctcatcgcgtctcaattt	86507	-	see also 12707 line
29126	KIAA0703	NM_014861.1	1292	ctctcagtcggagaaagtggtta	86486	-	see also 12707 line
29127	KIAA0399	NM_025164.3	2512	aactacagccaggcgcattaca	86553	-	see also 12708 line
29128	KIAA0399	NM_025164.3	1422	aaccgggcaacttgagacaagg	86545	-	see also 12708 line
29129	KIAA1164	NM_019092.1	823	ttccgggacaactctgtgtatca	86572	-	see also 12709 line
29130	KIAA1164	NM_019092.1	825	cccgaggacaactctgtgtatcaca	86573	-	see also 12709 line
29131	KIAA1164	NM_019092.1	462	ggccggagctgggtcattggttgg	86569	-	see also 12709 line
29132	KIAA1804	NM_032435.1	2758	atgctcaactccggattttgtcc	86613	-	see also 12710 line
29133	KIAA1804	NM_032435.1	1285	gtccctctatcggggcattgtagg	86584	-	see also 12710 line
29134	KIAA1811	NM_032430.1	845	agctgcgggtcccccattatgc	86627	-	see also 12711 line
29135	KIAA1811	NM_032430.1	349	accgcagcaagcccaatattggtg	86623	-	see also 12711 line
29136	KIF11	NM_004523.2	242	agcttagcgccattcaatagtag	86639	-	see also 12712 line
29137	KIF11	NM_004523.2	1116	ggggtacaaagaacatctataat	86673	-	see also 12712 line
29138	KIF12	NM_138424.1	293	gtcaccttgcgcctttattct	86732	-	see also 12713 line
29139	KIF12	NM_138424.1	295	cacccttgcgcctttattcttgg	86733	-	see also 12713 line
29140	KIF12	NM_138424.1	386	aacaagactcggggcttctatgt	86735	-	see also 12713 line
29141	KIF13A	NM_022113.3	4930	accatcgtctgtcattgattca	86861	-	see also 12714 line
29142	KIF13A	NM_022113.3	4929	caccatcgtctgtcattgatttc	86860	-	see also 12714 line
29143	KIF13B	NM_015254.1	2024	agcgtcaagcaagcgttaagaca	86917	-	see also 12715 line
29144	KIF13B	NM_015254.1	3281	agctacagagatcgagatttaga	86941	-	see also 12715 line
29145	KIF13B	NM_015254.1	2361	aagataccccagtaatacagaca	86927	-	see also 12715 line
29146	KIF14	NM_014875.1	2526	accgaagccgttttaattagtaac	87044	-	see also 12716 line
29147	KIF14	NM_014875.1	2521	tgttaaccaagcccggttttaattag	87043	-	see also 12716 line
29148	KIF1B	NM_015074.1	2292	tacttattacagggaacttaact	87174	-	see also 6222 line
29149	KIF1B	NM_015074.1	5442	atgcccgagccagtcgaaataact	87238	-	see also 6222 line
29150	KIF2	NM_004520.1	284	cacgtgcacgcccagtcgaattt	87246	-	see also 3072 line
29151	KIF2	NM_004520.1	1903	gtcgattcatatgctacacaact	87287	-	see also 3072 line
29152	KIF20A	NM_005733.1	2649	ctcacggcgttcccccctttactca	87333	-	see also 3976 line
29153	KIF20A	NM_005733.1	2042	tggccctacggcggctcacaagg	87324	-	see also 3976 line
29154	KIF21A	NM_017641.2	2211	aacttaggctcggtagaatttta	87402	-	see also 12720 line
29155	KIF21A	NM_017641.2	1236	tacgccaatcagctagataaatat	87371	-	see also 12720 line
29156	KIF21A	NM_017641.2	4427	taccagctgaacagtagctatttc	87468	-	see also 12720 line
29157	KIF25	NM_005355.2	466	cagcggaaagagctatcacatgc	87499	-	see also 12721 line
29158	KIF25	NM_005355.2	968	aggagcccgagcagcttctcaagg	87504	-	see also 12721 line
29159	KIF27	NM_017576.1	1195	cccgagctcagccagctatagata	87542	-	see also 12722 line
29160	KIF27	NM_017576.1	840	ccctcggcatattgtctcaagt	87513	-	see also 12722 line
29161	KIF3A	NM_007054.3	481	atgaaggtgttcgagctatttc	87565	-	see also 12723 line
29162	KIF3A	NM_007054.3	2110	cacgtgtattctgcctatactga	87613	-	see also 12723 line
29163	KIF3B	NM_004798.2	795	gagcacagctcgcgttctcattgc	87629	-	see also 12724 line
29164	KIF3B	NM_004798.2	392	gacgttcgacacctgttgact	87619	-	see also 12724 line
29165	KIF3C	NM_002254.4	756	acctttagcgcgtgtatgact	87654	-	see also 1449 line
29166	KIF3C	NM_002254.4	809	aacctgagggccctgtagact	87655	-	see also 1449 line

図 46 (続き)

835

29167	KIF5A	NM_004984.1	2067	tcgcctgcttaacggaatacatg	87707	-	see also 3474 line
29168	KIF5A	NM_004984.1	1574	gagaaacgctccgctaaggatga	87697	-	see also 3474 line
29169	KIF5B	NM_004521.1	1892	tcggcaacttttagagagtataga	87773	-	see also 3075 line
29170	KIF5B	NM_004521.1	1526	accgcaattggaggtataggaaa	87766	-	see also 3075 line
29171	KIF5C	NM_004522.1	2523	tcagactccgagacgaaatga	87825	-	see also 3081 line
29172	KIF5C	NM_004522.1	695	cccaagaattgccatgatatt	87803	-	see also 3081 line
29173	KIF9	NM_022342.2	207	aacagacagactgctgcttaag	87838	-	see also 8335 line
29174	KIF9	NM_022342.2	1633	tagtgagatcaacgcgaatttca	87864	-	see also 8335 line
29175	KIFC2	NM_145754.2	80	ctcgtgctcatctacatcttt	87879	-	see also 12730 line
29176	KIFC2	NM_145754.2	2293	gacagtctgctccctcaagttcg	87881	-	see also 12730 line
29177	KIFC3	NM_005550.2	1883	agcgtcgaggagatctacaatga	87888	-	see also 12731 line
29178	KIFC3	NM_005550.2	1562	accaatctgtgactttogatgc	87884	-	see also 12731 line
29179	KIT	NM_000222.1	164	tcgcgtggcgagagattagg	87894	-	see also 166 line
29180	KIT	NM_000222.1	2157	ttctgcagcgagtagtaataag	87961	-	see also 166 line
29181	KPI2	NM_014916.2	2005	tgtctcaaacacagacatggataat	88036	-	see also 12733 line
29182	KPI2	NM_014916.2	4353	aaggcagtcacgcgtttttogatga	88074	-	see also 12733 line
29183	KSR2	NM_173598.2	1419	tcoggtgacotcgaatccaatct	88096	-	see also 12734 line
29184	KSR2	NM_173598.2	554	ccgcgtgcatcggagcaaatcc	88084	-	see also 12734 line
29185	LAK	NM_025144.2	785	ctctccacgtcgctagtatact	88115	-	see also 12735 line
29186	LAK	NM_025144.2	787	ctccacgtcgctaggatatactgg	88116	-	see also 12735 line
29187	LARS	NM_020117.8	2801	gactacagctcaagaactatag	88257	-	see also 12736 line
29188	LARS	NM_020117.8	163	gaggtcaatcatcataattaga	88187	-	see also 12736 line
29189	LARS2	NM_015340.2	604	gcccagctcgagaggaatctaca	88287	-	see also 6381 line
29190	LARS2	NM_015340.2	1882	gcccgtacgactgtttatgc	88322	-	see also 6381 line
29191	LARS2	NM_015340.2	714	aactacgtgtttgccaagtact	88289	-	see also 6381 line
29192	LATS1	NM_004690.2	1395	tacgtaatctccgaatctctcc	88366	-	see also 12738 line
29193	LATS1	NM_004690.2	2512	agcagcgtctcacatcgtaaaaa	88412	-	see also 12738 line
29194	LATS2	NM_014572.1	2165	ctcgccatacgcctttaagtct	88471	-	see also 12739 line
29195	LATS2	NM_014572.1	3472	ctgagcacgcattttacgaattc	88488	-	see also 12739 line
29196	LATS2	NM_014572.1	1001	gcccgtacgtgagctactctttcc	88467	-	see also 12739 line
29197	LCK	NM_005356.2	668	tcgccattacacaaatgcttca	88497	-	see also 12740 line
29198	LCK	NM_005356.2	1383	gaccaacccggagggtgatacaga	88501	-	see also 12740 line
29199	LCK	NM_005356.2	420	gcccgaacccctggtttctoaaga	88493	-	see also 12740 line
29200	LMK1	NM_002314.2	247	tgcggccagagagatctatgatgg	88505	-	see also 1489 line
29201	LMK1	NM_002314.2	246	ctgcggccagagggtatctatgatg	88504	-	see also 1489 line
29202	LMK2	NM_005569.2	992	tccttaaggcgaggttaacagtat	88529	-	see also 12742 line
29203	LMK2	NM_005569.2	993	ccctaagcgagtaaacagtatc	88530	-	see also 12742 line
29204	LMK2	NM_005569.2	1217	gtcatgaagaggttaattcgatg	88533	-	see also 12742 line
29205	LOC11570	NM_145245.2	1630	gcctcgacgcgagagcttaaaact	88557	-	see also 9783 line
29206	LOC11570	NM_145245.2	2118	ctcgactcatcgcagtaacatcc	88559	-	see also 9783 line
29207	LOC11570	NM_145245.2	1632	ctcgacgcgagagcttaaaactgc	88558	-	see also 9783 line
29208	LOC11614	NM_138458.1	435	tggcatagggtgactagggaattg	88566	-	see also 9623 line
29209	LOC11614	NM_138458.1	436	ggcatagggtgactagggaattgg	88567	-	see also 9623 line
29210	LOC20038	NM_145299.1	684	agcacccggggaacaaacgaattg	88627	-	see also 12745 line

836

図46 (続き)

29211	LOC20038	NM_145299.1	452	caatgctgctatgggtatataatg	88615	-	see also 12745 line
29212	LOC84643	NM_032559.2	842	caccgtccctccgacaaatgtgg	88669	-	see also 12747 line
29213	LOC84643	NM_032559.2	1091	aacggcccaaatgttctaagg	88672	-	see also 12747 line
29214	LOC84643	NM_032559.2	851	ctcggacaaatgttggtatgtgc	88670	-	see also 12747 line
29215	LOC91807	NM_182493.1	2413	aacacggatggtcgaataattg	88704	-	see also 12748 line
29216	LOC91807	NM_182493.1	2154	gcccagaagtcgtcaattatga	88697	-	see also 12748 line
29217	LOC91807	NM_182493.1	2156	cocagaagtctcaattatgagt	88698	-	see also 12748 line
29218	LOC91862	NM_052858.1	768	cagttcggagggttacaagtgg	88713	-	see also 12749 line
29219	LOC91862	NM_052858.1	524	accoccttcggagagatatctgc	88708	-	see also 12749 line
29220	LOC92935	NM_138395.1	524	ggcgtctatgaagtgttatatg	88721	-	see also 9615 line
29221	LOC92935	NM_138395.1	1473	gtgtccggcaactaatgtttt	88742	-	see also 9615 line
29222	LONP	NM_031490.2	2526	ggcaacgtacacagagatttaag	88806	-	see also 9040 line
29223	LONP	NM_031490.2	2529	aacgtacacagagatttaagtt	88807	-	see also 9040 line
29224	LTK	NM_002344.1	2236	ggcctgtgtaccgcacatgacc	88824	-	see also 12752 line
29225	LTK	NM_002344.1	1498	aggtttccccagccaatgttact	88818	-	see also 12752 line
29226	LYK5	NM_153335.3	454	gactgtacggaggataacactag	88832	-	see also 9988 line
29227	LYK5	NM_153335.3	545	cccaatatcgtgccatatcgagc	88835	-	see also 9988 line
29228	LYN	NM_002350.1	530	accggacagactgttttcaag	88856	-	see also 12754 line
29229	LYN	NM_002350.1	531	cccgacgactgttttcaaga	88857	-	see also 12754 line
29230	MAK	NM_005906.3	1195	ggccttcggagataatogatc	88916	-	see also 12755 line
29231	MAK	NM_005906.3	1410	ggcgtgggttcagactatcttc	88918	-	see also 12755 line
29232	MAP2K1	NM_002755.2	114	cccgacgactgtcagtttaacg	88938	-	see also 1798 line
29233	MAP2K1	NM_002755.2	983	ggcgacctccatggcaattttt	88949	-	see also 1798 line
29234	MAP2K2	NM_030662.2	965	ggcgttcaggggcacacattact	88963	-	see also 12757 line
29235	MAP2K2	NM_030662.2	964	agcgttcaggggcacacattac	88962	-	see also 12757 line
29236	MAP2K3	NM_002756.2	626	ttctacggggacattatcaaga	88970	-	see also 1799 line
29237	MAP2K3	NM_002756.2	594	tgcgcacgtcgactgtttctac	88967	-	see also 1799 line
29238	MAP2K4	NM_003010.2	901	agcgcatcacacaaaggatatga	88975	-	see also 2016 line
29239	MAP2K4	NM_003010.2	1195	gaggtcgcactgtatgtttgtaa	88976	-	see also 2016 line
29240	MAP2K4	NM_003010.2	900	aagcgcatcacacaaaggatatg	88974	-	see also 2016 line
29241	MAP2K5	NM_002757.2	1785	ttctcggagccatttgtacattt	89009	-	see also 1801 line
29242	MAP2K5	NM_002757.2	1297	ttcttataagtgcgattcaca	88994	-	see also 1801 line
29243	MAP2K6	NM_002758.2	875	gacgtcaagcctcttaattgact	89037	-	see also 12760 line
29244	MAP2K6	NM_002758.2	1234	ttccaaagaacggcctacatacc	89049	-	see also 12760 line
29245	MAP2K7	NM_145185.2	495	cacgtcattccgttaagcaaat	89052	-	see also 12761 line
29246	MAP2K7	NM_145185.2	626	caccacacggcgtcttctcgc	89054	-	see also 12761 line
29247	MAP3K10	NM_002446.2	1222	gcgtatggctggcttagaataa	89061	-	see also 12762 line
29248	MAP3K10	NM_002446.2	789	ccacacctcgtcctatgtagg	89058	-	see also 12762 line
29249	MAP3K11	NM_002419.2	1452	tgcataccgttgcttactgc	89067	-	see also 12763 line
29250	MAP3K11	NM_002419.2	2804	cccttcgcagccgcatgaccc	89072	-	see also 12763 line
29251	MAP3K12	NM_006301.2	1304	ctgtctgcacccgcttagaagagg	89082	-	see also 4392 line
29252	MAP3K13	NM_004721.3	2007	agcagagaagccgatataaag	89134	-	see also 12765 line
29253	MAP3K13	NM_004721.3	1656	ctcaggcatcgctgatttcg	89127	-	see also 12765 line
29254	MAP3K14	NM_003954.1	557	agccagtcacagagcttctgatca	89161	-	see also 2701 line

図46 (続き)

29255	MAP3K14	NM_003954.1	1201	gtctctgtgtgccccatgagaagt	89166	-	see also 2701 line
29256	MAP3K2	NM_006609.2	329	tggacagtctatggatctacatt	89186	-	see also 4667 line
29257	MAP3K3	NM_002401.2	1618	aacgcctcgacgacgactgtatg	89275	-	see also 12767 line
29258	MAP3K3	NM_002401.2	969	ccccgaatacctgctcatcaagg	89263	-	see also 12767 line
29259	MAP3K4	NM_005922.1	908	tggcttaaacgactcaacgaact	89306	-	see also 4139 line
29260	MAP3K4	NM_005922.1	2287	acctcaagcatcgcatagtttaa	89348	-	see also 4139 line
29261	MAP3K5	NM_005923.3	3319	accgcacacgagttgaagtgg	89500	-	see also 4141 line
29262	MAP3K5	NM_005923.3	3316	ttcacccgcacagggtgaaag	89499	-	see also 4141 line
29263	MAP3K6	NM_004672.2	2620	cccgagcgcctgcctcagttatg	89547	-	see also 3207 line
29264	MAP3K6	NM_004672.2	886	ctgtatcgcaaggcgtttgacg	89537	-	see also 3207 line
29265	MAP3K6	NM_004672.2	980	tccaaagagctccggcctaagg	89538	-	see also 3207 line
29266	MAP3K7	NM_003188.2	748	aaccacaaagccttaattcacagg	89569	-	see also 12771 line
29267	MAP3K7	NM_003188.2	1918	ctgccttggtacaggaaacataa	89596	-	see also 12771 line
29268	MAP3K8	NM_005204.2	862	aacgatgagcgttctaagtctct	89604	-	see also 12772 line
29269	MAP3K8	NM_005204.2	1182	aagaaatggcgttaaacgtatcc	89613	-	see also 12772 line
29270	MAP4K1	NM_007181.2	1123	gagtcgctgacgactgactatga	89642	-	see also 12773 line
29271	MAP4K1	NM_007181.2	223	gtggcctaccatgggagttatct	89635	-	see also 12773 line
29272	MAP4K2	NM_004579.2	2255	ctgtgagagattgtcaacatgc	89664	-	see also 12774 line
29273	MAP4K2	NM_004579.2	848	ggccctgaccagaagatcctaaga	89660	-	see also 12774 line
29274	MAP4K3	NM_003618.2	1309	aggacacgtgcacacattagaag	89702	-	see also 12775 line
29275	MAP4K3	NM_003618.2	185	aaggcaggaattgttaacactgg	89666	-	see also 12775 line
29276	MAP4K5	NM_006575.3	2629	ttccattgaatcttagtatgc	89803	-	see also 4608 line
29277	MAP4K5	NM_006575.3	2411	atcgaatcagtagttcagtttg	89794	-	see also 4608 line
29278	MAPK1	NM_002745.2	352	atggtgtgctgtctgtatgataa	89812	-	see also 1787 line
29279	MAPK1	NM_002745.2	515	caccacacatcagagaaatgaaa	89818	-	see also 1787 line
29280	MAPK10	NM_002753.2	1186	ctccgagcacataaactcaaac	89861	-	see also 12778 line
29281	MAPK10	NM_002753.2	1180	agcggactccgagcacataaac	89859	-	see also 12778 line
29282	MAPK11	NM_002751.4	813	ggcctgaggttctggcacaatac	89868	-	see also 12779 line
29283	MAPK12	NM_002969.2	571	ggcgtgctggacgtattcactcc	89869	-	see also 12780 line
29284	MAPK12	NM_002969.2	1327	tgggaagcgtgttacttacaaga	89874	-	see also 12780 line
29285	MAPK13	NM_002754.3	381	tcctcctgctggcaacttctatga	89878	-	see also 12781 line
29286	MAPK13	NM_002754.3	1076	ttccttagaacacgagaaactca	89882	-	see also 12781 line
29287	MAPK14	NM_001315.1	806	cagggaacctaaacactagttaac	89902	-	see also 12782 line
29288	MAPK14	NM_001315.1	574	aactgcgttacttaaacatatg	89886	-	see also 12782 line
29289	MAPK14	NM_001315.1	543	tcacatattcctgcgaagaagac	89884	-	see also 12782 line
29290	MAPK3	NM_002746.1	991	ctggacccggtgttaacctttaa	89927	-	see also 12783 line
29291	MAPK3	NM_002746.1	553	aacgtctccaccagagatctaaa	89921	-	see also 12783 line
29292	MAPK4	NM_002747.2	673	acgcgctccgagagatcaagatc	89933	-	see also 1788 line
29293	MAPK4	NM_002747.2	539	cgtgtggcgtctgtgtgacttcc	89932	-	see also 1788 line
29294	MAPK6	NM_002748.2	2069	tggagttagccacttctgtaac	89979	-	see also 1789 line
29295	MAPK6	NM_002748.2	2813	ttgggtcacacacttaagtcaata	89996	-	see also 1789 line
29296	MAPK7	NM_002749.2	1114	gggtgcgatgctgcgttttgagc	90019	-	see also 1790 line
29297	MAPK7	NM_002749.2	772	gccgcgtgaacactcagttactca	90007	-	see also 1790 line
29298	MAPK7	NM_002749.2	1474	tgcacctgacaccattgatctga	90021	-	see also 1790 line

838

図46 (続き)

29299	MAPK8	NM_002750.2	781	cagtaaggactacgttgaaac	90049	-	see also 1791 line
29300	MAPK8	NM_002750.2	474	aagccacagtaataatagtagtaa	90043	-	see also 1791 line
29301	MAPK9	NM_002752.3	261	atcgtgaactgtctcttaaaa	90069	-	see also 1795 line
29302	MAPK9	NM_002752.3	567	ccggagacagcgtgcaacttc	90081	-	see also 1795 line
29303	MAPKAPK	NM_004759.3	1122	tccgaatggccagatgaatt	90111	-	see also 12789 line
29304	MAPKAPK	NM_004759.3	708	tggacggtggagaaactcttagc	90102	-	see also 12789 line
29305	MAPKAPK	NM_004635.3	653	gtgcttaagctcacogatttg	90123	-	see also 3149 line
29306	MAPKAPK	NM_004635.3	1012	cccttgatcaacaaatcgatgg	90127	-	see also 3149 line
29307	MAPKAPK	NM_003668.2	998	agccggactatccaaaggatat	90158	-	see also 2496 line
29308	MAPKAPK	NM_003668.2	892	ctcacggacgcctacactaca	90152	-	see also 2496 line
29309	MAPKAPK	NM_003668.2	898	gagccctacacttaacaaga	90153	-	see also 2496 line
29310	MARK1	NM_018650.2	2393	agcgagcagcgtgtgtataat	90222	-	see also 7536 line
29311	MARK1	NM_018650.2	2061	cacagatcgatcagtcattgc	90218	-	see also 7536 line
29312	MARK1	NM_018650.2	2576	cgcttttgggtccacatgg	90225	-	see also 7536 line
29313	MARK2	NM_004954.2	2390	ctctcaacggggttcgattta	90255	-	see also 12793 line
29314	MARK2	NM_004954.2	1883	agccccagaccgaactaacttc	90253	-	see also 12793 line
29315	MARK2	NM_004954.2	2392	ctctcaacggggttcgatttaag	90256	-	see also 12793 line
29316	MARK3	NM_002376.3	2282	gcccgggtccactaatctctt	90307	-	see also 1529 line
29317	MARK3	NM_002376.3	2469	gcgaataactgcgactatgagc	90315	-	see also 1529 line
29318	MARK4	NM_031417.2	483	gcacaagttccagacagatttgc	90321	-	see also 9016 line
29319	MARK4	NM_031417.2	1261	agcgagcagcagtagcgatttct	90330	-	see also 9016 line
29320	MARK4	NM_031417.2	316	tccgagaagtcgcgaatgaag	90318	-	see also 9016 line
29321	MAST205	NM_015112.1	2111	gacatggtggtctatacttgc	90363	-	see also 6250 line
29322	MAT1A	NM_000429.1	850	gtgtcaactggccgaagattatt	90391	-	see also 12796 line
29323	MAT1A	NM_000429.1	1042	tggccgagccctgtctcaatttc	90395	-	see also 12796 line
29324	MAT2A	NM_005911.3	630	tggtaagccctgtctcaaatg	90407	-	see also 12797 line
29325	MAT2A	NM_005911.3	629	tgtttacccctgtctcaaatg	90406	-	see also 12797 line
29326	MAT2A	NM_005911.3	975	gtcgacgttcagctgtatgc	90414	-	see also 12797 line
29327	MATK	NM_002378.2	1603	gacgggtccgtaccctcaaatg	90430	-	see also 1531 line
29328	MATK	NM_002378.2	1604	acgggtccgtaccctcaaatgt	90431	-	see also 1531 line
29329	MATK	NM_002378.2	864	gacggccacctcaaatcgatga	90424	-	see also 1531 line
29330	MCCC1	NM_020166.2	2256	cactcttagtcggagttgagg	90493	-	see also 7778 line
29331	MCCC1	NM_020166.2	1402	gacgaagtttcgtgattatga	90468	-	see also 7778 line
29332	MDN1	NM_014611.1	11108	atcgcttgacacacactctacc	90748	-	see also 5779 line
29333	MDN1	NM_014611.1	2202	caccgttgagggtgtcaaat	90541	-	see also 5779 line
29334	MELK	NM_014791.1	1540	tactcaactagcaaatcgcttac	90900	-	see also 12801 line
29335	MELK	NM_014791.1	1272	gtggcgggattaatagactatga	90890	-	see also 12801 line
29336	MERTK	NM_006343.1	1804	gtcgagcggccattgaactacc	90959	-	see also 4437 line
29337	MERTK	NM_006343.1	699	ccactacatcgaagtacaagg	90932	-	see also 4437 line
29338	MET	NM_000245.1	815	tccattgcattcgatcagtgga	91016	-	see also 175 line
29339	MET	NM_000245.1	3246	gactaccgagtaactttccaga	91090	-	see also 175 line
29340	MET	NM_000245.1	1454	agcttgcagcgggtgacttat	91038	-	see also 175 line
29341	MGC13186	NM_032324.1	329	atgggtcgacacctgactctttt	91132	-	see also 12803 line
29342	MGC13186	NM_032324.1	331	gtgtgcgacctgactcttttga	91133	-	see also 12803 line

839

図 46 (続き)

29343	MGC14560	NM_016301.2	147	aaccggtgtgtccaagttgtaaa	91137	-	see also 12804 line
29344	MGC14560	NM_016301.2	148	accggtgtgtccaagttgtaaac	91138	-	see also 12804 line
29345	MGC14560	NM_016301.2	704	agctatatgtggactgattgattg	91160	-	see also 12804 line
29346	MGC16169	NM_033115.2	2314	ggcagaagttcggcacattattt	91222	-	see also 12805 line
29347	MGC16169	NM_033115.2	1676	atcagctacgatgaactgttatca	91198	-	see also 12805 line
29348	MGC22688	NM_145001.1	367	gtgcgtggagcgcgaatgaagtga	91234	-	see also 12806 line
29349	MGC22688	NM_145001.1	505	gggtggagacctgcgttatcaacc	91236	-	see also 12806 line
29350	MGC2599	NM_032116.2	472	ggcgtcccaatcgagagaagtaaga	91243	-	see also 9075 line
29351	MGC2599	NM_032116.2	1431	cggcgtataatgccttaagtcc	91263	-	see also 9075 line
29352	MGC2744	NM_025267.2	759	aggttctgttcgggtagattgg	91282	-	see also 12808 line
29353	MGC2744	NM_025267.2	1063	tgggcccatcgggtgtgtaaca	91287	-	see also 12808 line
29354	MGC33182	NM_145203.2	1025	atccttaggtaoagttttcatgt	91299	-	see also 12809 line
29355	MGC33182	NM_145203.2	1021	tggaaatccttaggtactgttttc	91298	-	see also 12809 line
29356	MGC42105	NM_153361.2	2028	atcacagggtctctagaattat	91318	-	see also 12810 line
29357	MGC42105	NM_153361.2	1699	cagaaacccgtggccaaactaaaa	91311	-	see also 12810 line
29358	MGC45428	NM_152619.1	978	ccctctgacgcagcaaatcaco	91349	-	see also 9905 line
29359	MGC4796	NM_032017.1	750	gaccgcacotgtgaatcgttga	91382	-	see also 12812 line
29360	MGC4796	NM_032017.1	778	cagaatccagccgggtatgttaag	91383	-	see also 12812 line
29361	MGC5347	NM_024063.1	2216	ctgtaaaaaccgtgttaagtgc	91425	-	see also 12813 line
29362	MGC5347	NM_024063.1	1388	ttcgaagcgttaattggaattatg	91402	-	see also 12813 line
29363	MGC5347	NM_024063.1	1373	ttcgaacccatctgttgcgaagc	91401	-	see also 12813 line
29364	MGC8407	NM_024046.2	869	ctggctgtgactatgagtttga	91436	-	see also 8578 line
29365	MGC8407	NM_024046.2	793	aggcaatcacctttctatgagg	91434	-	see also 8578 line
29366	MIDORI	NM_020778.1	2507	ttcgggaagtcgaaggtatcattg	91467	-	see also 7962 line
29367	MIDORI	NM_020778.1	4785	ccggtagactcgggtgtgtatcg	91474	-	see also 7962 line
29368	MIDORI	NM_020778.1	5204	gagtcggagtagtactgcaaatct	91478	-	see also 7962 line
29369	MKI67	NM_002417.2	558	caogtctgtctcaagatctagc	91497	-	see also 12816 line
29370	MKI67	NM_002417.2	1977	aacgcgcgtaggtcctgcataaaca	91512	-	see also 12816 line
29371	MKS	NM_018848.2	1347	gtcgtagatataaacagtaa	91603	-	see also 7603 line
29372	MKS	NM_018848.2	1348	tgcgtagatataaacagtaaa	91604	-	see also 7603 line
29373	MKNK1	NM_003684.3	977	caogggccaggccacattctacg	91659	-	see also 12818 line
29374	MKNK1	NM_003684.3	543	ttgcaaggaggtccatctagc	91652	-	see also 12818 line
29375	MKNK2	NM_017572.2	888	aggtctcccccgtgaagatctgt	91663	-	see also 12819 line
29376	MKNK2	NM_017572.2	657	agtcctagagctgattgagttc	91661	-	see also 12819 line
29377	MLH1	NM_000249.2	847	aaccatcgtctggttagaatcaac	91691	-	see also 182 line
29378	MLH1	NM_000249.2	848	accatcgtctggttagaatcaact	91692	-	see also 182 line
29379	MORC	NM_014429.1	1711	aacttagagagctgagtcataaag	91765	-	see also 5675 line
29380	MORC	NM_014429.1	1719	ggatcggctcataagtatcaaaa	91767	-	see also 5675 line
29381	MOS	NM_005372.1	421	ttcgggtggcaacgtcactttaca	91798	-	see also 12822 line
29382	MOS	NM_005372.1	327	agcaaggctgcgcacagataaca	91796	-	see also 12822 line
29383	MOS	NM_005372.1	768	gacgcctaaagccgacatttatt	91803	-	see also 12822 line
29384	MOV10	NM_020963.1	2405	caogcgttaattggcgaagatga	91838	-	see also 8052 line
29385	MOV10	NM_020963.1	1911	aggaataaccgggtcttaattacc	91831	-	see also 8052 line
29386	MPHOSPH	NM_016195.1	5359	aacgacgacttcgaacaaaaaca	91989	-	see also 12824 line

840

図46 (続き)

29387	MPHOSPH	NM_016195.1	4626	atcaagcccaaacgtattatgc	91963	-	see also 12824 line
29388	MPHOSPH	NM_016195.1	333	tgcacctctgtcgttaagtga	91851	-	see also 12824 line
29389	MSTIR	NM_002447.1	1327	ctcacgtgtggacgtattcaatg	92002	-	see also 12825 line
29390	MSTIR	NM_002447.1	3312	ttgtctacacccggagaaatata	92020	-	see also 12825 line
29391	MST4	NM_016542.2	868	gccacctaacctccgatatgcac	92056	-	see also 6908 line
29392	MST4	NM_016542.2	357	ccagcaagtcgtgtattaaa	92047	-	see also 6908 line
29393	MT	NM_014507.1	389	gccgctctcagaaactacata	92075	-	see also 12827 line
29394	MT	NM_014507.1	391	cgctgtgagaaatacatcacc	92076	-	see also 12827 line
29395	MTFHD1	NM_005956.2	1721	acggacggccagtttgatatct	92127	-	see also 4162 line
29396	MTFHD1	NM_005956.2	1720	cacgacggccagtttgatatc	92126	-	see also 4162 line
29397	MUSK	NM_005592.1	2540	tacaatctcgtctctgttg	92183	-	see also 3882 line
29398	MUSK	NM_005592.1	2593	caccagttatcacccaattctgg	92185	-	see also 3882 line
29399	MVD	NM_002461.1	26	ctggcggcagtcactgtacagc	92187	-	see also 12830 line
29400	MVD	NM_002461.1	24	cgctggcggcagtcactgtaca	92186	-	see also 12830 line
29401	MVK	NM_000431.1	229	cagcttaccacacattggtatca	92196	-	see also 12831 line
29402	MVK	NM_000431.1	612	aggaggattggagctaatcaac	92202	-	see also 12831 line
29403	MYH1	NM_005963.2	2245	ctcctggggtccattgacattga	92205	-	see also 12832 line
29404	MYH1	NM_005963.2	4435	cgctcactcagcacagaactatt	92207	-	see also 12832 line
29405	MYH11	NM_002474.1	4590	aactcgacggccacacaaaatg	92238	-	see also 12833 line
29406	MYH11	NM_002474.1	418	ctcaggggtcctatactact	92213	-	see also 12833 line
29407	MYH13	NM_003802.1	1048	gtcacggtagccagttatcgatga	92257	-	see also 12834 line
29408	MYH13	NM_003802.1	3848	ggcggacagtagaagatcaattt	92282	-	see also 12834 line
29409	MYH13	NM_003802.1	3847	tgcggacagtagaagatcaatt	92281	-	see also 12834 line
29410	MYH2	NM_017534.1	68	aacgctattggagccagaaatagg	92289	-	see also 12835 line
29411	MYH2	NM_017534.1	1758	tgggtgttggtactacacatta	92295	-	see also 12835 line
29412	MYH3	NM_002470.1	5814	tgcgatatcgcaagaatctcaag	92333	-	see also 12836 line
29413	MYH3	NM_002470.1	5839	aacaagctccggcctaagaactcg	92335	-	see also 12836 line
29414	MYH4	NM_017533.1	4434	tgcctgcatagtctctcgataaga	92357	-	see also 12837 line
29415	MYH4	NM_017533.1	4437	ctgcatagctctcgataagaagc	92358	-	see also 12837 line
29416	MYH6	NM_002471.1	5848	gtgacattgtgccaaagcaaaa	92372	-	see also 12838 line
29417	MYH6	NM_002471.1	2466	cgcattgagttcaagaagatagt	92370	-	see also 12838 line
29418	MYH6	NM_002471.1	2016	tcggctctccaccgggaaatct	92368	-	see also 12838 line
29419	MYH7	NM_000257.1	1963	gggctgtatggcgtctattgagaag	92383	-	see also 12839 line
29420	MYH7	NM_000257.1	1004	ccctctacgattatgcattcatct	92378	-	see also 12839 line
29421	MYH8	NM_002472.1	1938	gtctctttccacgtatgctagt	92401	-	see also 12840 line
29422	MYH8	NM_002472.1	2084	cactctgacgtgttatoattcc	92402	-	see also 12840 line
29423	MYH8	NM_002472.1	4560	atcaactcgaacgctaagaaga	92415	-	see also 12840 line
29424	MYH9	NM_002473.2	465	caccgctcacaggagatgatgc	92428	-	see also 12841 line
29425	MYH9	NM_002473.2	2213	aggctgtcgtctcatgataaaa	92440	-	see also 12841 line
29426	MYLK	NM_005965.2	3193	ggagcggggaactgcttttaac	92485	-	see also 4168 line
29427	MYLK	NM_005965.2	3165	gtcccgccactccagatagact	92483	-	see also 4168 line
29428	MYLK2	NM_033118.2	669	cacctcgggggggattgagttcc	92502	-	see also 12843 line
29429	MYLK2	NM_033118.2	1512	gaccttggggcggtatcagacg	92512	-	see also 12843 line
29430	MYLK2	NM_033118.2	1468	accctaaacaacgttctctctgg	92510	-	see also 12843 line

841

図46 (続き)

29431	MYO10	NM_012334.1	6234	accctggcggaatacgtataaga	92628	-	see also 5295 line
29432	MYO10	NM_012334.1	6233	caccctggcggaatacgtataag	92627	-	see also 5295 line
29433	MYO10	NM_012334.1	6236	cctggcggaatacgtataagatc	92629	-	see also 5295 line
29434	MYO15A	NM_016239.2	1257	tacggctacgacgattacgaacc	92638	-	see also 6746 line
29435	MYO15A	NM_016239.2	4116	gtgtcggfgaaccataccaat	92654	-	see also 6746 line
29436	MYO18B	NM_032608.4	3206	tccacgctacagcgatatacaaga	92726	-	see also 12846 line
29437	MYO18B	NM_032608.4	3205	ctccacgctacagcgatatacaag	92725	-	see also 12846 line
29438	MYO1A	NM_005379.2	3318	cagcaagctacgctacacaaaaa	92826	-	see also 12847 line
29439	MYO1A	NM_005379.2	3316	aacagcaagctacgctacacaaaa	92825	-	see also 12847 line
29440	MYO1C	NM_033375.1	1947	gcctatcgccgcaaatcgaagc	92844	-	see also 12848 line
29441	MYO1C	NM_033375.1	166	ggcgatttcgggggaatctcatc	92829	-	see also 12848 line
29442	MYO1E	NM_004998.1	1678	tggacacccattgagttactttaa	92886	-	see also 3493 line
29443	MYO1E	NM_004998.1	642	tgccttgcagataatagtaca	92868	-	see also 3493 line
29444	MYO1F	NM_012335.2	798	ggacccggctactattactaco	92937	-	see also 12850 line
29445	MYO1F	NM_012335.2	2589	cagcgacagcagcagcttctca	92944	-	see also 12850 line
29446	MYO1F	NM_012335.2	793	ctcatgacacgggactactatta	92936	-	see also 12850 line
29447	MYO3A	NM_017433.3	699	cccgccacgctgggaacacatcc	92963	-	see also 7004 line
29448	MYO3B	NM_138995.1	2447	tgtgtaccctgggaatagagg	93115	-	see also 12852 line
29449	MYO3B	NM_138995.1	1880	aagacaattcggaagaatcagc	93105	-	see also 12852 line
29450	MYO5A	NM_000259.1	5844	gtcgttattctgactatatacaga	93257	-	see also 201 line
29451	MYO5A	NM_000259.1	5752	ttcctcgactagaaacccatcc	93259	-	see also 201 line
29452	MYO5C	NM_018728.1	2651	atccgacattcgtcttaatat	93323	-	see also 12854 line
29453	MYO5C	NM_018728.1	2652	tccgacgattcgtcttaatat	93324	-	see also 12854 line
29454	MYO6	NM_004999.1	214	cccgacagcttaacaattgaac	93375	-	see also 3494 line
29455	MYO6	NM_004999.1	3948	aggctggccacccatctgcaaca	93483	-	see also 205 line
29456	MYO7A	NM_000260.1	6688	gcctcatcgatcccaaacggaag	93523	-	see also 205 line
29457	MYO7A	NM_000260.1	5068	aggggctcgcgaagagatctaag	93512	-	see also 205 line
29458	MYO7A	NM_000260.1	5211	ggctgggccaacggcgaatcaga	93517	-	see also 205 line
29459	MYO9A	NM_006901.1	3889	atcggaattagccgtggaagtcca	93651	-	see also 4834 line
29460	MYO9A	NM_006901.1	2848	cactacaagatcgcatcacaag	93618	-	see also 4834 line
29461	MYO9B	NM_004145.2	4219	ggctctcaggtcgactataaatc	93777	-	see also 2793 line
29462	NADSYN1	NM_018161.3	2054	cgcgtaccacgcgcgagaaactaca	93811	-	see also 12859 line
29463	NADSYN1	NM_018161.3	364	accgaaacgtccgcgtacaactgc	93797	-	see also 12859 line
29464	NADSYN1	NM_018161.3	1978	ggacagtcgtgcaaaaggaag	93810	-	see also 12859 line
29465	NAGK	NM_017567.1	56	acgattcgggtctttagtct	93819	-	see also 7035 line
29466	NAGK	NM_017567.1	53	cacacgattcgggtctttag	93818	-	see also 7035 line
29467	NALP1	NM_014922.2	2686	ttgtacgagactcggaacaaaaa	93859	-	see also 12861 line
29468	NALP1	NM_014922.2	4569	ggatcgtggtggtgtgttgg	93883	-	see also 12861 line
29469	NALP1	NM_014922.2	2706	aacgttctgacacaaagtatagg	93861	-	see also 12861 line
29470	NALP11	NM_145007.1	2376	ggagcagggatgacatactgt	93960	-	see also 12862 line
29471	NALP11	NM_145007.1	1419	cactataaagaccggtacaagt	93919	-	see also 12862 line
29472	NALP12	NM_033297.1	2127	ggcagcgttcggtgtaacaaac	93997	-	see also 12863 line
29473	NALP12	NM_033297.1	2126	tggcagcgttcggtgtaacaaa	93996	-	see also 12863 line
29474	NALP2	NM_017852.1	1844	tgcgattcgacataagtgttaag	94031	-	see also 12864 line

842

図46 (続き)

29475	NALP2	NM_017852.1	1843	ctcgagatgcacataagtgttaa	94030	-	see also 12864 line
29476	NALP5	NM_153447.2	1270	ccccgtacctgttagttagagg	94074	-	see also 12865 line
29477	NALP5	NM_153447.2	1358	aagggttgcgtgcgacatgaac	94075	-	see also 12865 line
29478	NALP6	NM_138329.1	528	ctcgagacccgacactttcaacc	94126	-	see also 12866 line
29479	NALP6	NM_138329.1	2404	cagtaacctgtgggtgctcttcg	94129	-	see also 12866 line
29480	NALP7	NM_139176.1	2853	tacggttgaagacctctgaacct	94158	-	see also 12867 line
29481	NALP7	NM_139176.1	1812	ccccgtcaaggaaaattctatt	94143	-	see also 12867 line
29482	NALP7	NM_139176.1	2707	aaccaagcttggctgtagtatc	94154	-	see also 12867 line
29483	NAV1	NM_020443.2	2277	ggcgcaagactagcttagatgt	94175	-	see also 7877 line
29484	NAV1	NM_020443.2	4861	ggcgtcagggtgcaataacata	94204	-	see also 7877 line
29485	NAV2	NM_145117.2	2951	tccggaacccgagcattacaagc	94246	-	see also 12869 line
29486	NAV2	NM_145117.2	2950	atcgggacccgagcattacaag	94245	-	see also 12869 line
29487	NAV3	NM_014903.2	4877	gcccgttgcaagtgtaactatg	94409	-	see also 12870 line
29488	NAV3	NM_014903.2	6753	taccattgggtcccgactattcc	94465	-	see also 12870 line
29489	NDUFA10	NM_004544.2	148	agcggtagaggaattcatagc	94475	-	see also 12871 line
29490	NDUFA10	NM_004544.2	432	tacgatgatccggaggaagcaatga	94482	-	see also 12871 line
29491	NEK11	NM_024800.2	1115	aagaccatctgctatcgaattt	94518	-	see also 12872 line
29492	NEK11	NM_024800.2	631	gcccagatctggagcagataaatt	94502	-	see also 12872 line
29493	NEK2	NM_002497.1	633	aaccatgacacgaggtttgcaaa	94553	-	see also 12873 line
29494	NEK2	NM_002497.1	847	accgttactctgatgaattgaat	94564	-	see also 12873 line
29495	NEK2	NM_002497.1	609	actttggctctgctagatatt	94551	-	see also 12873 line
29496	NEK3	NM_002498.1	1257	tagaaagggtagccatctactgatt	94598	-	see also 12874 line
29497	NEK3	NM_002498.1	897	ctgtacccttaagcatccatttc	94590	-	see also 12874 line
29498	NEK4	NM_003157.1	1256	gccacaatcagtagcgttaatat	94633	-	see also 12875 line
29499	NEK4	NM_003157.1	2661	aagctcgccagtgaaattttt	94669	-	see also 12875 line
29500	NEK4	NM_003157.1	1362	atgagttagagagatatacagtt	94639	-	see also 12875 line
29501	NEK6	NM_014397.3	270	tggcggaactccagatcgaaag	94671	-	see also 12876 line
29502	NEK6	NM_014397.3	271	ggcggactccagatcgaaaga	94672	-	see also 12876 line
29503	NEK7	NM_133494.1	843	aactccgacagttagttaatg	94714	-	see also 9589 line
29504	NEK7	NM_133494.1	114	gaccggatatgggctataataca	94688	-	see also 9589 line
29505	NEK8	NM_178170.2	1372	ctgtccactgagcgagaactatt	94726	-	see also 12878 line
29506	NEK8	NM_178170.2	487	gtgtgggtaccocagctatat	94722	-	see also 12878 line
29507	NEK9	NM_033116.3	1757	ttccctacacaacgctcttacc	94786	-	see also 9363 line
29508	NEK9	NM_033116.3	756	gaggacgtttgatgctacaaacc	94756	-	see also 9363 line
29509	NLK	NM_016231.1	627	gagccggatagacactatggata	94804	-	see also 6733 line
29510	NLK	NM_016231.1	1210	aactactaggacgaagaatttg	94822	-	see also 6733 line
29511	NME1	NM_000269.2	185	agcgtttgagcagaagaagattc	94844	-	see also 12881 line
29512	NME1	NM_000269.2	543	tgtcagaactggatctatgaat	94849	-	see also 12881 line
29513	NME4	NM_005009.2	422	gaggctgcccaggaaccataag	94854	-	see also 12883 line
29514	NME5	NM_003551.2	319	gccatgatattagctagacataa	94860	-	see also 2364 line
29515	NME5	NM_003551.2	479	ctgcggaaagagaataacgtttt	94871	-	see also 2364 line
29516	NME6	NM_005793.3	261	aaggcgcttttttctatcagagg	94883	-	kinase related, nucleoside-
29517	NME6	NM_005793.3	393	gccatgtggcccccagattctatc	94884	-	apoptosis diphosphate kinase -

843

図4.6 (続き)

29518	NME6	NM_005793.3	182	agcaacaagttctgtgtatcg	94881	-	see also 29516 line
29519	NME7	NM_013330.3	445	ttctgcacaactgttataatg	94891	-	see also 12885 line
29520	NME7	NM_013330.3	925	gcggcaacaactgtctaaattta	94907	-	see also 12885 line
29521	NME7	NM_013330.3	300	ttgcacgttatgagctttattt	94887	-	see also 12885 line
29522	NOLC1	NM_004741.1	2056	aagtccttttcggcatgagaaac	94932	-	see also 12886 line
29523	NOLC1	NM_004741.1	660	agctcgagcagcactcaaaatag	94923	-	see also 12886 line
29524	NPR2	NM_000907.1	2790	tgctcgtatggccctagcattac	94979	-	see also 588 line
29525	NRBP	NM_013392.1	320	gagtggaatcaacgggaatgacc	94986	-	see also 5425 line
29526	NRBP	NM_013392.1	123	ggagatccacacagactacttagc	94984	-	see also 5425 line
29527	NSF	NM_006178.1	1596	ccagttactcggattcttagatg	95050	-	see also 4271 line
29528	NSF	NM_006178.1	1992	gacactacgcgcgaagatgtcc	95059	-	see also 4271 line
29529	NSF	NM_006178.1	955	gaggctaacattcggcaactttt	95028	-	see also 4271 line
29530	NTRK1	NM_002529.2	2006	ttggcatgagcaggatatactac	95072	-	see also 12890 line
29531	NTRK1	NM_002529.2	1978	caggacttggtgtcaagattgg	95071	-	see also 12890 line
29532	NTRK2	NM_006180.2	1274	ctctgtgtggcggaatacttgg	95097	-	see also 4274 line
29533	NTRK2	NM_006180.2	1277	ttgtgtggcggaatactttag	95098	-	see also 4274 line
29534	NTRK3	NM_002530.1	454	agctctacacgggacttcaaaag	95135	-	see also 12892 line
29535	NTRK3	NM_002530.1	531	aaccocatttgggttatataa	95136	-	see also 12892 line
29536	NUBP1	NM_002484.1	807	ccttgatcctcctcattaggaag	95166	-	see also 1590 line
29537	NUBP1	NM_002484.1	267	ctctctagacatcatatattgt	95161	-	see also 1590 line
29538	NUBP2	NM_012225.1	575	ggcgcgagctgacottcttagg	95175	-	molecular_function unknown
29539	NUBP2	NM_012225.1	373	gtgtggagaggccccaagaaaa	95174	-	see also 29538 line
29540	NVL	NM_002533.1	2060	aagttcgcggtgtgtgaatcagc	95210	-	see also 1631 line
29541	NVL	NM_002533.1	2224	cagatgccttgcctccattttaaa	95215	-	see also 1631 line
29542	OSR1	NM_005109.1	1759	ctgtgtcagcgaaggagattagt	95265	-	see also 12895 line
29543	OSR1	NM_005109.1	1637	tcccaatcagctcgtactaaga	95259	-	see also 12895 line
29544	P2RX1	NM_002558.2	1243	cggcactgcagaccatttatga	95279	-	see also 1648 line
29545	P2RX2	NM_012226.3	665	ctgcctcgtcaggtacacattc	95293	-	see also 12897 line
29546	P2RX2	NM_012226.3	860	ggcactggtattgtgtaacattc	95294	-	see also 12897 line
29547	P2RX3	NM_002559.2	985	cagcttgacgtgtgtgtatagc	95313	-	see also 12898 line
29548	P2RX3	NM_002559.2	475	cactggcgcgtgctgaactaca	95305	-	see also 12898 line
29549	P2RX4	NM_002560.2	666	atgcgaccactgtgtgtaaatca	95321	-	see also 12899 line
29550	P2RX4	NM_002560.2	1254	tccgcttcgacatcattgtttt	95331	-	see also 12899 line
29551	P2RX5	NM_002561.2	327	gactacaagaccggaagatgt	95337	-	see also 12900 line
29552	P2RX5	NM_002561.2	346	atgtcgcgcacagaagaag	95338	-	see also 12900 line
29553	P2RX7	NM_002562.4	1280	agccacattaaagtatgtgcc	95390	-	see also 12901 line
29554	P2RX7	NM_002562.4	1220	agccctgtgtgtgtaacgaatc	95384	-	see also 12901 line
29555	P2RX1	NM_005446.2	698	ggcgtatgaaccacaattcagc	95403	-	see also 12902 line
29556	P2RX1	NM_005446.2	1055	ggctggcggtgggtcaccttttc	95405	-	see also 12902 line
29557	PACE-1	NM_020423.4	1304	tgctggcgctcgtgtactagt	95426	-	see also 7870 line
29558	PACE-1	NM_020423.4	1845	atcaagcttaccocaaagatta	95442	-	see also 7870 line
29559	PAK1	NM_002576.2	547	gaccgattttaccgatccattt	95450	-	see also 1657 line
29560	PAK1	NM_002576.2	1240	accgtgtacacagcaatggatgt	95466	-	see also 1657 line

844

図46 (続き)

29561	PAK1	NM_002576.2	642	cacaattoaktoaggtttgatg	95455	-	see also 1657 line
29562	PAK2	NM_002577.2	689	cggacggatcatcagaatca	95478	-	see also 12904 line
29563	PAK2	NM_002577.2	693	acggatcatcagaatcaattt	95480	-	see also 12904 line
29564	PAK3	NM_002578.1	1300	gtactcgaaagcttatgttc	95517	-	see also 1658 line
29565	PAK3	NM_002578.1	457	gcccacgttcgagtaaaac	95503	-	see also 1658 line
29566	PAK6	NM_020168.3	786	ggccacggaccagacatgtacc	95527	-	see also 12907 line
29567	PAK6	NM_020168.3	2044	ctctggacttcgagttctgtgc	95530	-	see also 12907 line
29568	PAK7	NM_020341.2	817	tcacaggaatccgatactatgc	95538	-	see also 7836 line
29569	PAK7	NM_020341.2	923	agcaaatggcagcagtaataaaa	95541	-	see also 7836 line
29570	PAK7	NM_020341.2	950	agcacggggagggcctactattct	95543	-	see also 7836 line
29571	PANK1	NM_138316.2	248	ttcgagccgaaggatattacagc	95586	-	see also 9596 line
29572	PANK1	NM_138316.2	911	ttcggttgatgagacataaga	95594	-	see also 9596 line
29573	PANK2	NM_024960.3	1029	atggcgttttggcatatgcttt	95619	-	see also 8826 line
29574	PANK3	NM_024594.2	480	caccggcattcgggatgtacacc	95633	-	see also 8657 line
29575	PANK3	NM_024594.2	764	atggacaagcggagtgctattat	95841	-	see also 8657 line
29576	PANK4	NM_018216.1	1328	atgacgctgtggccgaaataac	95675	-	see also 7323 line
29577	PANK4	NM_018216.1	846	ggccacccggccgacaaaggttct	95668	-	see also 7323 line
29578	PANK4	NM_018216.1	2189	ggcgtgtgtccacacaaactac	95885	-	see also 7323 line
29579	PAPSS1	NM_005443.3	1745	agcgtatggactactatgactct	95721	-	see also 12912 line
29580	PAPSS1	NM_005443.3	477	aggtgcaagttaccgttttttg	95694	-	see also 12912 line
29581	PAPSS2	NM_004670.2	484	ttcgcaaggagctgtgagatgc	95735	-	see also 3192 line
29582	PAPSS2	NM_004670.2	584	ggagcgtaaaaggcctctataaa	95740	-	see also 3192 line
29583	PAPSS2	NM_004670.2	586	ggcgtaaaaggcctctataaaag	95741	-	see also 3192 line
29584	PASK	NM_015148.2	3067	agggggagtagtcccaacagtag	95808	-	see also 12914 line
29585	PASK	NM_015148.2	1274	ttcgtaaacacagctcattacagc	95794	-	see also 12914 line
29586	PC	NM_000920.2	2770	ggcaactcggcgtgtatgaaaa	95837	-	see also 597 line
29587	PC	NM_000920.2	1946	ttcgccacccacgctcctcaaaaag	95831	-	see also 597 line
29588	PC	NM_000920.2	383	ttcgccacgttagcctatctactct	95821	-	see also 597 line
29589	PCCA	NM_000282.1	1397	ttcgaggtgtcacataatatt	95887	-	see also 246 line
29590	PCCA	NM_000282.1	733	ggcggatgatactactactataga	95866	-	see also 246 line
29591	PCOLCE2	NM_013363.2	1347	aagatggcgaggcgaataatcatg	95942	-	see also 5409 line
29592	PCOLCE2	NM_013363.2	1047	ttcctgtaacacacgggttaaaaa	95932	-	see also 5409 line
29593	PCTK1	NM_006201.2	1625	ggcacgcaccccgacttgatagc	95954	-	see also 4297 line
29594	PCTK1	NM_006201.2	1063	atcgtacgtacatgacattat	95948	-	see also 4297 line
29595	PCTK2	NM_002595.2	1984	aaggacccgggttttcgaaattc	96003	-	see also 1676 line
29596	PCTK2	NM_002595.2	1985	aggacccgggttttcgaaattct	96004	-	see also 1676 line
29597	PCTK3	NM_002596.1	353	ccccgcactgagaccattgaaga	96006	-	see also 1679 line
29598	PCTK3	NM_002596.1	1017	tgcaaacgtcaagatctttcatg	96008	-	see also 1679 line
29599	PDGFRA	NM_006206.2	1711	cacgcgcgtctctgattatgagt	96029	-	see also 12921 line
29600	PDGFRA	NM_006206.2	1050	aagctcttaaaacgggtataag	96019	-	see also 12921 line
29601	PDGFRB	NM_002609.2	2911	ttcgggagcagaattacatctcc	96091	-	see also 1687 line
29602	PDGFRB	NM_002609.2	691	agcggaaacggctctacatcttt	96063	-	see also 1687 line
29603	PDK1	NM_002610.3	804	atgctagcgtctgtgtgtttg	96127	-	see also 1688 line
29604	PDK1	NM_002610.3	992	tacccccctattcaagttcatgt	96133	-	see also 1688 line

図 46 (続き)

845

29605	PDK2	NM_002611.3	1102	ccgcctctagcccaagtacttc	96145	-	see also 1689 line
29606	PDK2	NM_002611.3	1006	agcactcttcagctactgtac	96144	-	see also 1689 line
29607	PDK3	NM_005391.1	219	ttctgcggataatttaactaac	96157	-	see also 3760 line
29608	PDK4	NM_002612.2	421	tcctccgaccacattagtaaat	96197	-	see also 12926 line
29609	PDK4	NM_002612.2	1110	gaccgcctcttttagttatacata	96223	-	see also 12926 line
29610	PDPK1	NM_002613.1	1631	cagcgctaacaggacgattatc	96259	-	see also 12927 line
29611	PDPK1	NM_002613.1	1468	tggataagcggagagggttattt	96253	-	see also 12927 line
29612	PDK3	NM_015022.2	1454	cgctacatcagctactgtgt	96273	-	see also 12928 line
29613	PDK3	NM_015022.2	2792	gacccgagcggtgtctcaatttc	96295	-	see also 12928 line
29614	PDK3	NM_015022.2	1597	ctcgatcattgggtttgtacaaag	96274	-	see also 12928 line
29615	PEX1	NM_000466.1	3006	tactagtcgcccgaacttgattg	96462	-	see also 374 line
29616	PEX1	NM_000466.1	2442	tcgactctctcgcagagatat	96443	-	see also 374 line
29617	PEX6	NM_000287.2	2690	gccttgtaaacggtgctagattgc	96504	-	see also 12930 line
29618	PEX6	NM_000287.2	744	ctggagacactctctgtagactgg	96487	-	see also 12930 line
29619	PFAS	NM_012393.1	759	ttgacttgagcgagtcacatagc	96516	-	see also 12931 line
29620	PFAS	NM_012393.1	787	cagcgacacactggtttctcaagg	96517	-	see also 12931 line
29621	PFKFB1	NM_002625.1	1197	agcgtctggagccagtgataatg	96572	-	see also 12932 line
29622	PFKFB1	NM_002625.1	256	cacaaagctcacacgatctcoa	96555	-	see also 12932 line
29623	PFKFB2	NM_006212.1	194	ctcccgactctgctgtagtga	96577	-	see also 12933 line
29624	PFKFB2	NM_006212.1	418	aagatgttaaggcgctatctcact	96587	-	see also 12933 line
29625	PFKFB3	NM_004566.1	1477	ccgctcatgagacacaaatagtgt	96622	-	see also 12934 line
29626	PFKFB3	NM_004566.1	735	cagggaactgtcgtgataoaagg	96617	-	see also 12934 line
29627	PFKFB4	NM_004567.2	424	aacggagagcgaccatctttaat	96635	-	see also 3106 line
29628	PFKFB4	NM_004567.2	617	ctcctacgagtcgtatagtaggg	96642	-	see also 3106 line
29629	PFTK1	NM_012395.2	1325	ctgccttgagccagagatattt	96673	-	see also 5309 line
29630	PFTK1	NM_012395.2	933	atccgtccctagccacacatact	96665	-	see also 5309 line
29631	PHKG1	NM_006213.2	547	ctgcaccttgcaaacatcaaca	96680	-	see also 12937 line
29632	PHKG1	NM_006213.2	414	atgagacaacacattcttcttc	96679	-	see also 12937 line
29633	PHKG2	NM_000294.1	809	tcctgtgttaocgcatgatactg	96689	-	see also 12938 line
29634	PHKG2	NM_000294.1	958	ccctctttgagcgttgtagagg	96692	-	see also 12938 line
29635	PIK3R4	NM_014602.1	4256	tcctcatagcgtccatgtatct	96813	-	see also 12939 line
29636	PIK3R4	NM_014602.1	1884	gtcaaaagaggtctctcgtatga	96743	-	see also 12939 line
29637	PIM1	NM_002648.2	1197	gccaaccttcgaagaatccaga	96830	-	see also 12940 line
29638	PIM1	NM_002648.2	964	ttcgatgggaccgagtgtag	96827	-	see also 12940 line
29639	PIM2	NM_006875.1	548	cgcccgagatctcttgactata	96831	-	kinase related
29640	PIM2	NM_006875.1	1027	tgtctggaccccttgatgcaaca	96833	-	see also 29639 line
29641	PIM2	NM_006875.1	549	gcccaaggatctcttgactatat	96832	-	see also 29639 line
29642	PINK1	NM_032409.1	1167	tcgcgcacagagacgtgaatcc	96840	-	see also 9184 line
29643	PINK1	NM_032409.1	1030	gacgtgttctcgtttatgaaga	96839	-	see also 9184 line
29644	PKE	NM_173575.2	1382	ctcccgatccgagaatgactato	96857	-	see also 12942 line
29645	PKE	NM_173575.2	827	tgcacacotgaccgacttcaaca	96853	-	see also 12942 line
29646	PKMYT1	NM_004203.3	800	ctctacagagaggtcttcaagg	96863	-	see also 12943 line
29647	PKMYT1	NM_004203.3	1439	gcgttctgtccttctcagatgc	96866	-	see also 12943 line
29648	PLK	NM_005030.3	555	caccgaaaccggagttattcatcg	96871	-	see also 12944 line

図 46 (続き)

846

29649	PLK	NM_005030.3	758	gtccattgggtgtatcatgtata	96873	-	see also 12944 line
29650	PP13	NM_013268.2	309	agctgtgcatctacgtacattac	96886	-	see also 12945 line
29651	PP13	NM_013268.2	320	tacgtattacattacattgagtatga	96889	-	see also 12945 line
29652	PP13	NM_013268.2	46	ttctttaccggtcccatcaaac	96883	-	see also 12945 line
29653	PRKAA2	NM_006252.1	711	atgagcatgtacattacgtatttt	96907	-	see also 12946 line
29654	PRKAA2	NM_006252.1	820	cccaactgaacagcaactatca	96917	-	see also 12946 line
29655	PRKACA	NM_002730.2	531	aggacaactcaaaactatacatg	96951	-	see also 12947 line
29656	PRKACA	NM_002730.2	869	ctgggggtttcttatotatgaat	96954	-	see also 12947 line
29657	PRKACB	NM_002731.1	944	caagacagattggattgctattt	96985	-	see also 12948 line
29658	PRKACB	NM_002731.1	361	ttogactggaggtatgcttttaag	96963	-	see also 12948 line
29659	PRKACG	NM_002732.2	111	caccggcagctcggatcagttcg	97001	-	see also 12949 line
29660	PRKACG	NM_002732.2	398	tacagcggctgggaagtttagc	97003	-	see also 12949 line
29661	PRKACG	NM_002732.2	901	accagctggatcgccatctatga	97007	-	see also 12949 line
29662	PRKCA	NM_002737.1	740	gacgactctctagaaatcttgg	97020	-	see also 1774 line
29663	PRKCA	NM_002737.1	445	cacaagcaatgcgtcatcaatgt	97012	-	see also 1774 line
29664	PRKCB1	NM_002738.4	557	aagcgtcgtgtagaatgttcc	97046	-	see also 1775 line
29665	PRKCB1	NM_002738.4	1897	actgaagggcgaacgtgatatca	97062	-	see also 1775 line
29666	PRKCD	NM_006254.2	1711	ctctaccgtgccaggttttagc	97087	-	see also 12952 line
29667	PRKCE	NM_006254.2	1008	ggccaacagcgggagactatat	97077	-	see also 12952 line
29668	PRKCE	NM_005400.1	1403	cacggaacaccccgctacctacc	97113	-	see also 12953 line
29669	PRKCE	NM_005400.1	903	cagaggaatcgccaaagtactgg	97105	-	see also 12953 line
29670	PRKCG	NM_002739.2	723	ggcccgtaacctaattctctatgg	97135	-	see also 12954 line
29671	PRKCG	NM_002739.2	1464	cccgaccgcctgtattctgtga	97144	-	see also 12954 line
29672	PRKCH	NM_006255.2	1423	ttcttccaccgactgtgtatcg	97176	-	see also 4337 line
29673	PRKCI	NM_002740.3	1315	gggtotccaccgggaaatattt	97173	-	see also 4337 line
29674	PRKCI	NM_002740.3	457	ggagaccgtgtacagtatcatot	97211	-	see also 1776 line
29675	PRKCI	NM_002740.3	1058	aacagatogtatttatgaaatga	97231	-	see also 1776 line
29676	PRKCL1	NM_002741.1	1708	gocggaccacagggagacatctc	97254	-	see also 12957 line
29677	PRKCL1	NM_002741.1	1592	agcgtgctagggcagatgaacatc	97252	-	see also 12957 line
29678	PRKCL1	NM_002741.1	2331	caccgagggtctacgtcaagatcg	97260	-	see also 12957 line
29679	PRKCL2	NM_006256.1	389	atgacctctgtttctactagc	97278	-	see also 4341 line
29680	PRKCL2	NM_006256.1	1138	agcggaaagttagtgaatcttct	97314	-	see also 4341 line
29681	PRKCM	NM_002742.1	1548	tgcggaaacggcactattggaga	97382	-	see also 1780 line
29682	PRKCM	NM_002742.1	2712	agcgtacagtggtggataagacc	97416	-	see also 1780 line
29683	PRKCM	NM_002742.1	1173	caccgaaagtaccacaaacactgc	97374	-	see also 1780 line
29684	PRKCN	NM_005813.2	1749	tcgcgtatgagggtttgtacaaat	97453	-	see also 4056 line
29685	PRKCN	NM_005813.2	755	gcctcacacgggagaggtttacc	97424	-	see also 4056 line
29686	PRKCC	NM_006257.1	1335	tcggtttcagcgcacatgtttt	97522	-	see also 4343 line
29687	PRKCC	NM_006257.1	353	ctcaaggccgaatgctaataat	97504	-	see also 4343 line
29688	PRKCC	NM_006257.1	1400	acctaaccgggggggacttaag	97527	-	see also 4343 line
29689	PRKD2	NM_016457.2	1166	tgggttacctccocctaataagg	97548	-	see also 12961 line
29690	PRKD2	NM_016457.2	1295	ggcgcctgaggtgaaatgtatc	97551	-	see also 12961 line
29691	PRKG1	NM_006258.1	641	accgtcaagactcttgaatgt	97577	-	see also 4344 line
29692	PRKG1	NM_006258.1	672	gggcattgtagacaatgtttt	97579	-	see also 4344 line

847

図46 (続き)

29693	PRKG2	NM_006259.1	1262	tgcgaagcggctcatgtctaact	97642	-	see also 4348 line
29694	PRKG2	NM_006259.1	779	ggcactagatcggagagattcc	97628	-	see also 4348 line
29695	PRKWNK1	NM_018979.1	631	gccgtgggaatgtctaocgatgg	97669	-	see also 7630 line
29696	PRKWNK1	NM_018979.1	3759	tgcgggaagcgggttttagtga	97738	-	see also 7630 line
29697	PRKWNK2	NM_006648.3	3662	acggggacgcaccctgatgaatt	97825	-	see also 12965 line
29698	PRKWNK2	NM_006648.3	3663	cggggacacaccgatgaattg	97826	-	see also 12965 line
29699	PRKWNK3	NM_020922.1	4001	ggggctggttcagggtattaca	97951	-	see also 12966 line
29700	PRKWNK3	NM_020922.1	1454	gagaccgggtgacccaataaag	97879	-	see also 12966 line
29701	PRKWNK4	NM_032387.2	1881	ctcggcttttgcctcatcattc	98003	-	see also 9179 line
29702	PRKX	NM_005044.1	1215	aacaaggcgattaggaaacatga	98022	-	kinase, related
29703	PRKX	NM_005044.1	1220	ggcgattaggaaacatgaagaac	98023	-	see also 29702 line
29704	PRO2000	NM_014109.2	3101	agcgattccgagtggttactaag	98107	-	see also 5494 line
29705	PRO2000	NM_014109.2	1226	gtcgtataagggtctatcaatagg	98055	-	see also 5494 line
29706	PRPF4B	NM_003913.3	916	aagtcggatcgaggtaaaaaat	98173	-	see also 2669 line
29707	PRPF4B	NM_003913.3	918	gtcggatcgaggtaaaaaatcc	98174	-	see also 2669 line
29708	PRSS15	NM_004793.2	523	gtcggcgctcttctaagagagaga	98245	-	see also 12970 line
29709	PRSS15	NM_004793.2	504	togtccgccagccttatgtcg	98242	-	see also 12970 line
29710	PSK	NM_016151.1	2657	ggggcagcgccagctactttgagc	333015	-	see also 12971 line
29711	PSK	NM_016151.1	1055	cagcggtgctggttaatggaggt	333001	-	see also 12971 line
29712	PSKH1	NM_006742.1	403	ccacagttcacagtaagtatg	98269	-	see also 4764 line
29713	PSKH1	NM_006742.1	1319	tccacacgtccaataagtaacag	98282	-	see also 4764 line
29714	PSKH2	NM_033126.1	430	gagctctttgactgactattgc	98290	-	see also 12973 line
29715	PSKH2	NM_033126.1	340	cgggttagcactggttactattg	98286	-	see also 12973 line
29716	PSMC1	NM_002802.2	879	tgcacccgtccatcgtgtttatg	98309	-	see also 12974 line
29717	PSMC1	NM_002802.2	882	acgctccatcgtgtttatgatg	98310	-	see also 12974 line
29718	PSMC1	NM_002802.2	1036	gccacaacccgaatagaaacttt	98313	-	see also 12974 line
29719	PSMC2	NM_002803.2	772	tgcgtgtcttcattcgagttattg	98335	-	see also 1819 line
29720	PSMC2	NM_002803.2	1263	gagcagcgagaaatgtctacc	98351	-	see also 1819 line
29721	PSMC2	NM_002803.2	1347	ctcctgtgtacatgacatacaac	98358	-	see also 1819 line
29722	PSMC3	NM_002804.3	1118	tccagcccaacacccaagttaag	98369	-	see also 1820 line
29723	PSMC4	NM_006503.2	1008	caggacggctggaccgtaaaatt	98389	-	see also 12977 line
29724	PSMC4	NM_006503.2	632	coccgagggctcctcatgtatgg	98382	-	see also 12977 line
29725	PSMC4	NM_006503.2	1009	aggacggctggaccgtaaaattg	98390	-	see also 12977 line
29726	PSMC5	NM_002805.4	93	agcggaactccgccaatattatc	98401	-	see also 1821 line
29727	PSMC5	NM_002805.4	92	cagcggaactccgccaatattatc	98400	-	see also 1821 line
29728	PSMC5	NM_002806.2	266	tgtgtgtcacagcttgacaaaa	98420	-	see also 1822 line
29729	PSMC6	NM_002806.2	268	gtcgtgcacagcttgacaaaa	98421	-	see also 1822 line
29730	PTK2	NM_005607.3	2966	acctggaccggtcgaatgataag	98524	-	see also 3893 line
29731	PTK2	NM_005607.3	2108	atgtaatcgtcgaatgataaat	98508	-	see also 3893 line
29732	PTK2	NM_005607.3	2385	tccgagggctccagcgaagatttt	98513	-	see also 3893 line
29733	PTK2B	NM_004103.3	2795	agcccaagcccgactaagtacaga	98553	-	see also 2772 line
29734	PTK2B	NM_004103.3	1379	aggaatgcgtcatgaagtcttc	98535	-	see also 2772 line
29735	PTK6	NM_005975.2	1122	gaggccattactccaccaaatcc	98569	-	see also 12981 line

848

図46 (続き)

29736	PTK6	NM_005975.2	406	ggctgtggcgcactacaagatct	98561	-	see also 12981 line
29737	PTK7	NM_002821.3	636	cacacttctgtgcacattgatg	98572	-	see also 12982 line
29738	PTK7	NM_002821.3	2051	acccaagccgctgattcattgg	98585	-	see also 12982 line
29739	PTK7	NM_002821.3	1849	aacgttgagaccctgcattttgc	98584	-	see also 12982 line
29740	PTOV1	NM_017432.2	1148	cgctgctgcacatttctctaca	98589	-	see also 12983 line
29741	PTOV1	NM_017432.2	848	ccagctcagatcgtcaacaaca	98588	-	see also 12983 line
29742	PXK	NM_017771.2	759	ctcagcgttctctaatteggatgt	98616	-	see also 7151 line
29743	PXK	NM_017771.2	612	gccaaaggaacggctagtgttaa	98610	-	see also 7151 line
29744	PXK	NM_017771.2	192	gtccacacaggaatattatttc	98595	-	see also 7151 line
29745	QARS	NM_005051.1	1254	gctatagagtcaggtatatacacc	98663	-	see also 12985 line
29746	QARS	NM_005051.1	266	aagcgtcgccttgagttatgtgc	98641	-	see also 12985 line
29747	RAD50	NM_005732.2	4264	atcgatcagtcgtcagagattgt	98825	-	see also 3973 line
29748	RAD50	NM_005732.2	1051	gagattcgtgacagattacaag	98714	-	see also 3973 line
29749	RAF1	NM_002880.1	897	gtcacatccacacctaatgtcc	98850	-	see also 1921 line
29750	RAF1	NM_002880.1	1725	ctctatggcagtcgtattgtatg	98860	-	see also 1921 line
29751	RAGE	NM_014226.1	693	agccttacacaggaatacatctcc	98889	-	see also 5541 line
29752	RAGE	NM_014226.1	400	tcgcacacccaacattcttatgt	98876	-	see also 5541 line
29753	RARSL	NM_020320.2	480	tgcgttaccatcatagaaaat	98916	-	see also 12989 line
29754	RARSL	NM_020320.2	1601	agggcatatgctcagttactctct	98954	-	see also 12989 line
29755	RET	NM_000323.2	1238	ggcgacacgtacatgactatagg	98968	-	see also 273 line
29756	RET	NM_000323.2	2872	tgcgctgtcccgagatgtta	98981	-	see also 273 line
29757	RHOK	NM_002929.1	1341	gcccgtgaagcacccctgataagt	99008	-	see also 12991 line
29758	RHOK	NM_002929.1	491	aggggataagtgaggagatttaag	99005	-	see also 12991 line
29759	RICH1	NM_018054.3	1447	ccggattcttaatactcatctcc	99050	-	see also 7218 line
29760	RICH1	NM_018054.3	1441	caccaccccgagttcttaactcact	99049	-	see also 7218 line
29761	RIOK1	NM_031480.2	1169	accacagtgaggcgggtgtatctc	99085	-	see also 12993 line
29762	RIOK1	NM_031480.2	1444	gtgtttaagcgagcatatattcc	99096	-	see also 12993 line
29763	RIPK1	NM_003804.2	538	gacggcacocgctaagaagaatgg	99124	-	see also 12994 line
29764	RIPK1	NM_003804.2	1737	cactagtctgacgataaacacc	99156	-	see also 12994 line
29765	RIPK2	NM_003821.4	1028	acctcacccgagcacgtatgattct	99178	-	see also 2603 line
29766	ROCK1	NM_005406.1	1201	agcaatcgtatgactattcttc	99228	-	see also 3772 line
29767	ROCK1	NM_005406.1	2079	aaccaaaagctgatttaactgaca	99252	-	see also 3772 line
29768	ROCK2	NM_004850.2	1685	atcgatttaccctactatagaga	99310	-	see also 3364 line
29769	ROCK2	NM_004850.2	1682	ttcatcgatttaccactactatag	99309	-	see also 3364 line
29770	ROR1	NM_005012.1	1070	tcocgtactcgatgaacttca	99413	-	see also 3506 line
29771	ROR1	NM_005012.1	1650	ttagctgtgtcgaataaccaga	99430	-	see also 3506 line
29772	ROR2	NM_004560.2	473	aacgtgcgtggctgaagaatga	99468	-	see also 12999 line
29773	ROR2	NM_004560.2	1132	ccgctaccactcagtgctataacg	99474	-	see also 12999 line
29774	ROS1	NM_002944.2	2362	cacgaagcgacgctttttgtgt	99552	-	see also 1986 line
29775	ROS1	NM_002944.2	1142	tgcctcgggttgagatgctatata	99516	-	see also 1986 line
29776	ROS1	NM_002944.2	297	gcctaaagctcgtgtgtaactaat	99487	-	see also 1986 line
29777	RP2	NM_006915.1	522	ttagtgtgcgagattgtgaaaag	99713	-	see also 4852 line
29778	RP2	NM_006915.1	337	gacggtacaggaacaacagtttc	99704	-	see also 4852 line
29779	RP2	NM_006915.1	759	aggactatgttctctactact	99720	-	see also 4852 line

図 46 (続き)

849

29780	RPS6KA1	NM_002953.2	891	gtggtctatagggtgtgtgt	99740	-	see also 13002 line
29781	RPS6KA1	NM_002953.2	324	ggctgattccatccattcgagc	99735	-	see also 13002 line
29782	RPS6KA2	NM_021135.3	1320	aacgtctatccactgttttagagg	99753	-	see also 13003 line
29783	RPS6KA2	NM_021135.3	875	ctgcgggacgacgagtagacatgg	99750	-	see also 13003 line
29784	RPS6KA3	NM_004586.1	881	aagcgcagagctcttttaagaatg	99778	-	see also 3120 line
29785	RPS6KA3	NM_004586.1	1658	atcgggaatctattgaattgt	99800	-	see also 3120 line
29786	RPS6KA3	NM_004586.1	882	agcgcagagctttttacgaatgc	99779	-	see also 3120 line
29787	RPS6KA4	NM_003942.1	520	tgcacacgctggcatcatttac	99825	-	see also 13005 line
29788	RPS6KA4	NM_003942.1	519	ctgcacacgctggcatcatttac	99824	-	see also 13005 line
29789	RPS6KA5	NM_004755.2	303	cagcagctgcggactgctaatt	99830	-	see also 3273 line
29790	RPS6KA5	NM_004755.2	1359	atcctattcaagcgttaatgcagc	99863	-	see also 3273 line
29791	RPS6KA6	NM_014496.1	2089	agcgtatactgtgaacaaata	99940	-	see also 5720 line
29792	RPS6KA6	NM_014496.1	2079	gaccacacatcagcgtatactgc	99938	-	see also 5720 line
29793	RPS6KB1	NM_003161.1	738	tggactatgcagaagaatctattc	99953	-	see also 2134 line
29794	RPS6KB1	NM_003161.1	899	cccatctacatggaggagaataga	99956	-	see also 2134 line
29795	RPS6KB2	NM_003952.1	1111	gaggacgtgagccagtttgatagc	99967	-	see also 13009 line
29796	RPS6KB2	NM_003952.1	402	acgggctgagcgggaacattctag	99960	-	see also 13009 line
29797	RPS6K1	NM_012424.2	1042	tgcgggcagaaagtatctctagt	99993	-	see also 13010 line
29798	RPS6K1	NM_012424.2	217	acccgaggggctcacacgtatat	99970	-	see also 13010 line
29799	RPS6K1	NM_031464.2	344	gacatgaacaaacgtgactatct	100073	-	see also 13011 line
29800	RPS6K1	NM_031464.2	1393	aggtcaacatccggctcactatt	100078	-	see also 13011 line
29801	RUVBL1	NM_003707.1	222	gtgcgctcatagtagaataatc	100086	-	see also 13012 line
29802	RUVBL1	NM_003707.1	220	atgtggcgctcatagtagaataa	100085	-	see also 13012 line
29803	RUVBL2	NM_006666.1	218	gcccgtctcgggcagctcctattgc	100117	-	see also 13013 line
29804	RUVBL2	NM_006666.1	217	tgcgggtggggcagctcctatttg	100116	-	see also 13013 line
29805	RUVBL2	NM_006666.1	50	atcgtgtagtaacaaggataga	100114	-	see also 13013 line
29806	RYK	NM_002958.1	951	cagacacgcccacaacatgcaact	100154	-	see also 13014 line
29807	RYK	NM_002958.1	525	gggaagttccacgcactttatca	100138	-	see also 13014 line
29808	SARS2	NM_017827.2	1021	ccctgcccgcttcaaatatca	100180	-	see also 7157 line
29809	SCN8A	NM_014191.1	5789	gagcgggttcgtggcatccaatcc	100237	-	see also 5532 line
29810	SCYL1	NM_020680.2	327	gacccggtgggaataatactca	100244	-	see also 13017 line
29811	SCYL1	NM_020680.2	232	ttcaagcgttcaaaactctacg	100242	-	see also 13017 line
29812	SEPHS2	NM_012248.2	1428	gacaagccgcggagtattgaagt	100282	-	see also 5222 line
29813	SEPHS2	NM_012248.2	660	ctctacgccatggaggattactga	100257	-	see also 5222 line
29814	SEPHS2	NM_012248.2	708	agcgtcagccagagatgagtga	100258	-	see also 5222 line
29815	SGK	NM_005627.2	78	tgcataaggccaccctcaact	100283	-	see also 3903 line
29816	SGK	NM_005627.2	154	atggactgaacacactttattca	100288	-	see also 3903 line
29817	SGK2	NM_016276.3	981	ctgtgtgaccttgcctgacttgg	100320	-	see also 13020 line
29818	SGK2	NM_016276.3	1250	ttgagattaagaacccattgtattc	100323	-	see also 13020 line
29819	SGKL	NM_013257.3	1505	aagattccaccaccatttaatcc	100364	-	see also 5376 line
29820	SGKL	NM_013257.3	247	aagctgcaccagtgtaagcattc	100328	-	see also 5376 line
29821	SIK2	NM_015191.1	988	gccatccatcggggaggttaattg	100399	-	see also 13022 line
29822	SIK2	NM_015191.1	991	atccatcggggaggttaattgagc	100400	-	see also 13022 line
29823	SKD3	NM_030813.3	274	gaggacgcttcgataccaaatgc	100424	-	see also 8957 line

850

図46 (続き)

29824	SKD3	NM_030813.3	272	ggagagagcgttcgatccaaat	100423	-	see also 8957 line
29825	SMC1L1	NM_006306.2	1469	agcggcgtattgataaataat	100466	-	see also 4397 line
29826	SMC1L2	NM_148674.1	2759	aacgattagagaagacataacttg	100578	-	see also 9820 line
29827	SMC1L2	NM_148674.1	3586	gacgcgtgatcgacatcatcc	100610	-	see also 9820 line
29828	SMC2L1	NM_006444.1	1917	aactgaacgctcatcacatata	100677	-	see also 4505 line
29829	SMC2L1	NM_006444.1	1723	tcccaatcttcgatttgcatata	100689	-	see also 4505 line
29830	SMC5L1	NM_015110.1	1425	tgtacgttttgacaacttatg	100773	-	see also 6249 line
29831	SMC5L1	NM_015110.1	1038	tggaaacagcgtcaccaattg	100758	-	see also 6249 line
29832	SMC6L1	NM_024824.2	1866	cacggcacccgataatagttct	100878	-	see also 8671 line
29833	SMC6L1	NM_024824.2	1868	cgccacccgataatagttctga	100879	-	see also 8671 line
29834	SNARK	NM_030952.1	1234	gcgcagcattcgctcaagaagt	100928	-	see also 13028 line
29835	SNARK	NM_030952.1	923	gcctaccggggcgccacctaacc	100927	-	see also 13028 line
29836	SNF1LK	NM_173354.1	228	cgcgcatcgagtcaccacaacg	100933	-	see also 10064 line
29837	SNF1LK	NM_173354.1	279	cacgattagattcaagaatttg	100936	-	see also 10064 line
29838	SNF1LK	NM_173354.1	398	atgctactgaatttgctaaaa	100939	-	see also 10064 line
29839	SNK	NM_006622.1	617	aagtcctacgcgcgcaaaaattt	100946	-	see also 4683 line
29840	SNK	NM_006622.1	498	gcgggagatctcgcggtattatg	100944	-	see also 4683 line
29841	SNRK	NM_017719.3	312	aggccattttgcggtgtaaac	100956	-	see also 13031 line
29842	SNRK	NM_017719.3	464	tcgctccgctttatgaagtatt	101000	-	see also 13031 line
29843	SPATA5	NM_145207.1	207	gcgggtaccacattattagaaa	101044	-	see also 9780 line
29844	SPATA5	NM_145207.1	2382	tactaacgctccagatagtag	101114	-	see also 9780 line
29845	SPATA5	NM_145207.1	101	acaaagcgcggaaaatggttcg	101041	-	see also 9780 line
29846	SPG4	NM_014946.3	839	gtcaaaaaagcagctctataatg	101139	-	see also 6136 line
29847	SPG4	NM_014946.3	1592	tagtagagcgcctaaaaactgaat	101167	-	see also 6136 line
29848	SPG4	NM_014946.3	1089	aagggtactcgcgaaaaaataag	101148	-	see also 6136 line
29849	SPG7	NM_003119.2	982	gtccgcgagtttggtgattatct	101196	-	see also 13034 line
29850	SPG7	NM_003119.2	1381	tccacgaaccgagctgacatttt	101199	-	see also 13034 line
29851	SPG7	NM_003119.2	1383	cacgaaccgagctgacattttgg	101200	-	see also 13034 line
29852	SPHK1	NM_021972.2	1346	ggcgaggatagagatgaat	101211	-	see also 13035 line
29853	SPHK1	NM_021972.2	1268	tggcgtcatgcattcttctacg	101210	-	see also 13035 line
29854	SPHK2	NM_020126.3	1962	gacgtgaggggagctttgtgc	101222	-	see also 13036 line
29855	SPHK2	NM_020126.3	951	ggcctggcagtggtgtaagaacc	101221	-	see also 13036 line
29856	SRC	NM_005417.3	1679	ggctcgtcattgaaagacaatg	101227	-	see also 13037 line
29857	SRC	NM_005417.3	886	tccagctgagagtgattttt	101225	-	see also 13037 line
29858	SRMS	NM_080823.2	805	tggcgatcaaggtcatcaagtca	101230	-	see also 13038 line
29859	SRMS	NM_080823.2	744	aagctggatgaagctactttgg	101229	-	see also 13038 line
29860	SRPK1	NM_003137.2	1949	tccggacccttgcttactacc	101272	-	see also 2117 line
29861	SRPK2	NM_182691.1	1835	taccgctcatagaggttttaat	101306	-	see also 10272 line
29862	SRPK2	NM_182691.1	422	ggccggtatcatgtattagaaa	101273	-	see also 10272 line
29863	SRPK2	NM_182691.1	1894	cacggcgtgtagcatttgagc	101310	-	see also 10272 line
29864	SSTK	NM_032037.1	139	ttctgagcgaactcgggtataag	101320	-	see also 9064 line
29865	STCH	NM_006948.3	1264	tctcggatccgttaagtcattc	101356	-	see also 13042 line
29866	STCH	NM_006948.3	709	ggcgaggagaactatagatgt	101346	-	see also 13042 line
29867	STK10	NM_005990.1	1629	ctcaagcggagacgcgaatttg	101377	-	see also 4184 line

851

図 46 (続き)

29868	STK10	NM_005990.1	1287	tcccgaccggtgtcaatggatgc	101373	-	see also 4184 line	protein serine/threonine kinase	breast cancer(乳癌)、Peutz-Jeghers syndrome(ポインツ・ジェガース症候群)、pancreatic cancer(膵臓癌)、melanoma(メラノーマ)、 colorectal cancers(結腸直腸癌)
29869	STK11	NM_000455.3	826	caccggtggcaccctcaaatct	101391	-	kinase related		
29870	STK11	NM_000455.3	577	gaggagggttacggcacaaaatg	101389	-	see also 29869 line		
29871	STK11	NM_000455.3	578	aggaggttaaggcaaaaatgt	101390	-	see also 29869 line		
29872	STK16	NM_003691.1	775	gtccctaggtgcgtgctatg	101405	-	see also 2525 line		
29873	STK16	NM_003691.1	776	tccctaggtgcgtgctatg	101406	-	see also 2525 line		
29874	STK17A	NM_004760.1	439	gagattgctgactgaactgc	101415	-	see also 13045 line		
29875	STK17A	NM_004760.1	710	ctccatgggtgacattaagatt	101425	-	see also 13045 line		
29876	STK17B	NM_004226.2	661	atgatgtatcagaactcaataa	101457	-	see also 2823 line		
29877	STK17B	NM_004226.2	527	gtctgtcccggtgttaatac	101452	-	see also 2823 line		
29878	STK18	NM_014264.2	2501	tgtctaagagggtcactgattt	101534	-	see also 5571 line		
29879	STK18	NM_014264.2	613	tccctactgactgtaataaac	101485	-	see also 5571 line		
29880	STK18	NM_014264.2	609	aacctccctactgactgtaata	101483	-	see also 5571 line		
29881	STK19	NM_004197.1	485	cccgagagaccttgggttaaga	101558	-	see also 2810 line		
29882	STK19	NM_004197.1	429	cccttcccggtgaccataaaac	101557	-	see also 2810 line		
29883	STK19	NM_004197.1	428	cccttcccggtgaccataaaac	101556	-	see also 2810 line		
29884	STK22C	NM_052841.2	268	ccctggagagctccaaatgctcc	101568	-	see also 13049 line		
29885	STK22C	NM_052841.2	649	ggcgattcccccacagatgcaaaa	101570	-	see also 13049 line		
29886	STK23	NM_014370.1	1345	ggggaccacatcgctcacatagt	101584	-	see also 13050 line		
29887	STK23	NM_014370.1	684	gtgtgtggaggaagcttacatca	101578	-	see also 13050 line		
29888	STK24	NM_003576.2	494	ggctccgacttagatctattaga	101605	-	see also 2373 line		
29889	STK24	NM_003576.2	496	ctccgcactagatctattagaac	101606	-	see also 2373 line		
29890	STK25	NM_006374.3	1443	gagcgagtgacagaggtttcacca	101635	-	see also 13052 line		
29891	STK25	NM_006374.3	1441	tggagcgagtgacagaggtttcca	101634	-	see also 13052 line		
29892	STK29	NM_003957.1	2325	gacacactaaactgtatggaaat	101645	-	see also 13053 line		
29893	STK29	NM_003957.1	2330	cactaaactgtatggaaatgaga	101646	-	see also 13053 line		
29894	STK3	NM_006281.1	668	aacgcaatctactgaataggaaact	101662	-	see also 4373 line		
29895	STK3	NM_006281.1	869	cagaacttggtccggtatgttc	101670	-	see also 4373 line		
29896	STK33	NM_030906.1	1847	ggcgtcgtaatgtacatgtatt	101724	-	see also 13055 line		
29897	STK33	NM_030906.1	1845	taggcgtcgtaatgtacatgtta	101722	-	see also 13055 line		
29898	STK36	NM_015690.2	1964	tgcgagagagacagcccttatgac	101778	-	see also 13056 line		
29899	STK36	NM_015690.2	2573	gtgaagttgtactctctttacc	101789	-	see also 13056 line		
29900	STK38	NM_007271.2	380	agcaaccttatcgctcaacatga	101805	-	see also 5071 line		
29901	STK38L	NM_015000.1	868	tgtgttatgtacaggatcaaaag	101842	-	see also 6174 line		
29902	STK38L	NM_015000.1	1448	taccacagaacgggactacaaaat	101858	-	see also 6174 line		
29903	STK39	NM_013233.1	1528	gtgocgtgaacctcgttttgaga	101897	-	see also 13059 line		
29904	STK39	NM_013233.1	1658	tggcacagatgtagtattatgag	101907	-	see also 13059 line		
29905	STK4	NM_006282.2	951	gtcaatactcgagacttaatta	101942	-	see also 4374 line		
29906	STK4	NM_006282.2	593	tthgggtagcaggtcaactaca	101931	-	see also 4374 line		
29907	STK6	NM_003600.2	556	cagtcacaaagccggttcagaatc	101952	-	see also 13061 line		
29908	STK6	NM_003600.2	915	cccaccttcggcctcctaatt	101953	-	see also 13061 line		

図46 (続き)

29909	SVK	NM_003177.3	858	ctggcagctagtctgagcattatt	101966	-	see also 13062 line
29910	SVK	NM_003177.3	862	cagctagctgagcattattctta	101969	-	see also 13062 line
29911	SVN3	NM_003490.2	704	tcocgtgttgagcgaacattt	102008	-	see also 13063 line
29912	SVN3	NM_003490.2	286	tcacgcccattgttcaagacc	102003	-	see also 13063 line
29913	SVN3	NM_003490.2	914	tcacgcatccagaaaattggatcc	102012	-	see also 13063 line
29914	TAP1	NM_000593.4	759	gccttctgttcagttatgcgc	102021	-	see also 13064 line
29915	TAP1	NM_000593.4	2297	ggcgtggcccgagcattgatcc	102041	-	see also 13064 line
29916	TAP1	NM_000593.4	755	taccgcttctgttcagttatg	102019	-	see also 13064 line
29917	TAP2	NM_000544.2	1111	ctgcagaccgttcgcagttttgg	102052	-	see also 13065 line
29918	TAP2	NM_000544.2	744	caccatctcgaatcaacttgc	102047	-	see also 13065 line
29919	TARS	NM_152295.3	2379	tcacgggggaacgcacatttct	102127	-	see also 9832 line
29920	TARS	NM_152295.3	567	aacagtttgatcggaattcttg	102071	-	see also 9832 line
29921	TARS	NM_152295.3	423	gtcagctcagttgaatccttgg	102067	-	see also 9832 line
29922	TBK1	NM_013254.2	1127	aggcgacgcttagtttagaac	102158	-	see also 13067 line
29923	TBK1	NM_013254.2	2230	tgcgaacgttgactgttcttag	102196	-	see also 13067 line
29924	TCEB3L2	NM_145653.1	1331	gccgacagacaaaagtatctgt	102200	-	see also 13068 line
29925	TCEB3L2	NM_145653.1	1281	gcggagtgtgacccgaaaatcc	102198	-	see also 13068 line
29926	TCPI	NM_030752.1	1127	ctcgtacgtctgcactgatctc	102212	-	see also 8925 line
29927	TCPI	NM_030752.1	1581	tgcattaccattcttogaattg	102236	-	see also 8925 line
29928	TCPI	NM_030752.1	67	acgatccgctcccaaacgttat	102201	-	see also 8925 line
29929	TEC	NM_003215.1	1135	aggctggctaccagttatgt	102265	-	see also 13070 line
29930	TEC	NM_003215.1	1281	atggcgagcccgacacaaagtcg	102267	-	see also 13070 line
29931	TEK	NM_000459.1	3441	agcgaaagacctaactgtaatacc	102371	-	see also 358 line
29932	TEK	NM_000459.1	1273	gccgtactactaataagagaaa	102313	-	see also 358 line
29933	TESK1	NM_006285.1	425	ggcgggtgtggaagatttcaact	102374	-	see also 13072 line
29934	TESK1	NM_006285.1	423	ctggcggctgtggacattttca	102373	-	see also 13072 line
29935	TESK2	NM_007170.1	546	tcagagactgacggctttggatga	102392	-	see also 13073 line
29936	TESK2	NM_007170.1	1799	acgcctaagtagtctcaagtaca	102413	-	see also 13073 line
29937	TEX14	NM_031272.2	3052	cacgattggcagcagattatg	102480	-	see also 8999 line
29938	TEX14	NM_031272.2	1499	ggcgtagtctcggggaattatt	102442	-	see also 8999 line
29939	TGFB1	NM_004612.1	166	ggcgacggcggtacagttttct	102513	-	see also 3133 line
29940	TGFB1	NM_004612.1	312	ctcgagatagggcgtttgtatgt	102517	-	see also 3133 line
29941	TGFB2	NM_003242.3	414	cacgttcagaagtcggttaataa	102559	-	see also 13076 line
29942	TGFB2	NM_003242.3	425	gtcggttaataacgcacatgatag	102561	-	see also 13076 line
29943	TGFB2	NM_003242.3	456	aacaacgggtgcagtcagtttcc	102562	-	see also 13076 line
29944	TIE	NM_005424.2	794	gaccatgacggcggaattgtatg	102589	-	see also 13077 line
29945	TIE	NM_005424.2	795	accatgacggcgaattgtatgc	102590	-	see also 13077 line
29946	TIMM44	NM_006351.2	94	ccatgggtgcacacctcagatg	102616	-	see also 4444 line
29947	TIMM44	NM_006351.2	476	gtcggtccagtcggtatccaaag	102625	-	see also 4444 line
29948	TK1	NM_003258.1	527	tcggggaagccgcctataccaaag	102641	-	see also 13079 line
29949	TK1	NM_003258.1	133	gggcccgtgttctcaggaaaaag	102640	-	see also 13079 line
29950	TK2	NM_004614.2	753	gtcgattcacagcgcgaagtaca	102648	-	see also 13080 line
29951	TK2	NM_004614.2	1097	aacaaaatcgggactcgaattta	102655	-	see also 13080 line
29952	TLK1	NM_012290.3	2168	gacgctgttggcatatcgaaaa	102718	-	see also 5257 line

図 46 (続き)

853

29953	TLK1	NM_012290.3	1709	aagaagctcgtctattgtaatg	102701	-	see also 5257 line
29954	TNK1	NM_003985.1	619	aggtatcggtcatgagacttg	102730	-	see also 13082 line
29955	TNK1	NM_003985.1	1023	gcctcgggacgtgtggatgttgg	102731	-	see also 13082 line
29956	TOM1L2	NM_144678.2	172	gtgaggattggacgttgtaatatg	102734	-	see also 9730 line
29957	TOM1L2	NM_144678.2	648	gtcgttcggaggaaacaaaggt	102738	-	see also 9730 line
29958	TOPK	NM_018492.2	491	ttgttggttatcgtgcttttact	102757	-	see also 13084 line
29959	TOPK	NM_018492.2	326	ctggggttaaatgttacctaag	102751	-	see also 13084 line
29960	TOR1B	NM_014506.1	622	gagcgaactcaagccgtttctaga	102782	-	see also 13085 line
29961	TOR1B	NM_014506.1	299	atctagacacggaaagtgttttc	102774	-	see also 13085 line
29962	TPX2	NM_012112.4	1980	accgagcctattggcttgattt	102821	-	see also 13086 line
29963	TPX2	NM_012112.4	2212	aggacgaaccagtagatataaa	102829	-	see also 13086 line
29964	TRA1	NM_003299.1	2270	cgcttcggtcaggtatctttta	102884	-	see also 2230 line
29965	TRA1	NM_003299.1	333	tgccttcacagccgaagttaaca	102839	-	see also 2230 line
29966	TRAD	NM_007064.1	3883	tccgccttagctatgcttcataga	102934	-	see also 4944 line
29967	TRAD	NM_007064.1	2700	aacgtctgaacacgtcaaatgc	102914	-	see also 4944 line
29968	TRAP1	NM_016292.1	978	cccgctacacccctgcactataag	102958	-	see also 13089 line
29969	TRAP1	NM_016292.1	1238	aggaaactccgggacgttttaca	102963	-	see also 13089 line
29970	TRAP100	NM_014815.1	2575	gagacacgcggaagacattgagg	103002	-	see also 6010 line
29971	TRAP100	NM_014815.1	2645	atgcgactcgtgagctctaata	103003	-	see also 6010 line
29972	TRAP150	NM_005119.1	561	ctcgtcagggccgtccaagatcc	103014	-	see also 3590 line
29973	TRAP150	NM_005119.1	463	tggcggttaacagagcgtttatc	103010	-	see also 3590 line
29974	TRAP150	NM_005119.1	267	ctcgtctcgttcattctcgaag	103007	-	see also 3590 line
29975	TRB2	NM_021643.1	2162	agcgtctcgaattcagcatatagg	103083	-	see also 8162 line
29976	TRB2	NM_021643.1	1299	aagagttgtcgtctataaggtcc	103062	-	see also 8162 line
29977	TRIO	NM_007118.1	5608	gcccagctcgtcagtgcaattga	103173	-	see also 13093 line
29978	TRIO	NM_007118.1	8594	ttcgacctatcgtatagcataaa	103218	-	see also 13093 line
29979	TRIO	NM_007118.1	6345	aggattcagcgggaaatcgttg	103189	-	see also 13093 line
29980	TRIP13	NM_004237.2	720	taccgatatggccaattattga	103235	-	see also 13094 line
29981	TRIP13	NM_004237.2	906	gcccgcaccggccatcagatgc	103239	-	see also 13094 line
29982	TRPC4AP	NM_015638.1	976	tgggtacacgtggctagacatgc	103276	-	see also 6526 line
29983	TRPC4AP	NM_015638.1	1961	gcccgtcgtcgtcactacatacc	103296	-	see also 6526 line
29984	TRPM6	NM_017662.3	4841	cccttcgttaggagtcattggtt	103418	-	see also 7087 line
29985	TRPM6	NM_017662.3	4839	ggcccttcgttaggagtcattggt	103417	-	see also 7087 line
29986	TRPM7	NM_017672.2	1991	cagccctaccgacccaaagattga	103518	-	see also 7091 line
29987	TRPM7	NM_017672.2	2688	aagtacagattttgtagtaaat	103555	-	see also 7091 line
29988	TRPM7	NM_017672.2	2199	ttgcctgtaagatctatcgttca	103530	-	see also 7091 line
29989	TTBK2	NM_173500.2	2889	ttcgttcgcgtcagagattact	103696	-	see also 10073 line
29990	TTBK2	NM_173500.2	789	tgggtccttctcgtactacatgt	103668	-	see also 10073 line
29991	TTIC12	NM_017868.2	1785	agctatctgcacgaatagtattc	103779	-	see also 13099 line
29992	TTIC12	NM_017868.2	1143	cggacggagcctgtatcataacc	103762	-	see also 13099 line
29993	TTK	NM_003318.3	1776	taccggaacgaaatagcttattt	103837	-	see also 13100 line
29994	TTK	NM_003318.3	1305	gagttagcccgaaagtttaaac	103823	-	see also 13100 line
29995	TTK	NM_003318.3	1777	accgggaacgaaatagcttattg	103838	-	see also 13100 line
29996	TTN	NM_003319.2	6441	aacgggtctgaccggatctactgg	104007	-	see also 2250 line

図 46 (続き)

854

29997	TXK	NM_003328.1	853	cagctgggttttagctacgaaaag	107034	-	see also 13102 line
29998	TXK	NM_003328.1	226	ggcctggtctcagccaattgtoa	107014	-	see also 13102 line
29999	TXK	NM_003328.1	270	ggcctggtcagcgcgcaaaacg	107019	-	see also 13102 line
30000	TXL-2	NM_178130.2	651	aggcagaagtcgacactttctac	107071	-	see also 13103 line
30001	TXL-2	NM_178130.2	242	ctcagttccaaaggaactactgt	107059	-	see also 13103 line
30002	TXNDC3	NM_016616.2	964	gtcaacttctatagtcgaatagc	107092	-	see also 13104 line
30003	TXNDC3	NM_016616.2	2076	atctaaagcctatagaagcaaaag	107123	-	see also 13104 line
30004	TYK2	NM_003331.3	3485	gcccgaagccacagagactacc	107142	-	see also 2256 line
30005	TYK2	NM_003331.3	628	atgcaagcctgactgtctatttc	107127	-	see also 2256 line
30006	TYRO3	NM_006293.2	2756	cagtgactgtcggtacatactca	107175	-	see also 13106 line
30007	TYRO3	NM_006293.2	2336	ggcggacacactgtactactgtgc	107167	-	see also 13106 line
30008	UCK1	NM_031432.1	423	tggagggtccgaactatgatttt	107182	-	see also 13107 line
30009	UCK1	NM_031432.1	425	gagggtccgacctatgattttgt	107183	-	see also 13107 line
30010	UCK1	NM_031432.1	202	gtcgacccgtgtgagagaagatca	107178	-	see also 13107 line
30011	ULK1	NM_003565.1	2328	gccccttggccgggttttcagc	107191	-	see also 13108 line
30012	ULK1	NM_003565.1	1772	tacacggcactctcctaagttgg	107190	-	see also 13108 line
30013	ULK1	NM_003565.1	1064	cgcctgacttcgatgagttttt	107188	-	see also 13108 line
30014	ULK2	NM_014683.2	983	tgctcgttaccctacatagtaaca	107209	-	see also 5884 line
30015	ULK2	NM_014683.2	1022	gtgtggatcccgatgtacatgg	107212	-	see also 5884 line
30016	UMP-	NM_016308.1	187	gcccgcactcgtcgagaaatagg	107257	-	see also 13110 line
30017	UMP-	NM_016308.1	604	aagccaattattgacttatatga	107266	-	see also 13110 line
30018	UMPK	NM_012474.3	663	cccggctctcacgcagagtatta	107274	-	see also 13111 line
30019	UMPK	NM_012474.3	664	ccggctctcacgcagagattataa	107275	-	see also 13111 line
30020	URKL1	NM_017859.1	1076	gaccagtcgagacgagttcatot	107287	-	see also 13112 line
30021	URKL1	NM_017859.1	1614	aactttggcgacgcgctaacttgg	107292	-	see also 13112 line
30022	VARS2	NM_006295.1	525	taecgccgacacggagttataac	107293	-	see also 4390 line
30023	VARS2	NM_006295.1	528	gcgcacacggagttataaccagc	107294	-	see also 4390 line
30024	VARS2	NM_006295.1	1823	aacaaactcggatcgagacaatgc	107303	-	see also 4390 line
30025	VCP	NM_007126.2	273	aacgtgtccaatcggttaattgt	107315	-	see also 13114 line
30026	VCP	NM_007126.2	275	ccgtcccaatcggttaattgttg	107316	-	see also 13114 line
30027	VPS11	NM_021729.3	2633	accggaaagtcagtgatgatgc	107386	-	see also 13115 line
30028	VPS11	NM_021729.3	592	aaggggcaactatcctgttaactgg	107360	-	see also 13115 line
30029	VPS4A	NM_013245.2	1178	gtcgccacacactccaataaagg	107410	-	see also 5363 line
30030	VPS4A	NM_013245.2	243	ttctctcacgctatcaagtatga	107391	-	see also 5363 line
30031	VPS4A	NM_013245.2	427	aaggggagataccggagaaaaag	107397	-	see also 5363 line
30032	VPS4B	NM_004869.2	1436	cggatattgttcggctcaactat	107448	-	see also 13117 line
30033	VPS4B	NM_004869.2	1444	ttgcgtcactatctatacaaaa	107449	-	see also 13117 line
30034	VRK1	NM_003384.1	757	acgagcatcgatgcacacaatgg	107474	-	see also 2280 line
30035	VRK1	NM_003384.1	815	ttgggtattgatgccaatgg	107477	-	see also 2280 line
30036	VRK2	NM_006296.2	1247	cacacaaataggttaatcgaaaa	107514	-	see also 4391 line
30037	VRK2	NM_006296.2	1245	ggcacacaataggttaatcgaaa	107513	-	see also 4391 line
30038	VRK3	NM_016440.2	208	aagtatccaagcggcattcaaat	107527	-	see also 13120 line

図46 (続き)

855

30039	VRK3	NM_016440.2	213	tccaagcgggaattcaaatctgc	107528	-	see also 13120 line
30040	WARS	NM_004184.2	772	gacggatgacgagaagtatctgt	107560	-	see also 13121 line
30041	WARS	NM_004184.2	498	tgtctcgttttggaagtataaa	107544	-	see also 13121 line
30042	WARS	NM_015836.1	712	ctgcccaccgtcagaatacaga	107594	-	see also 13122 line
30043	WARS2	NM_015836.1	814	cgcgcctggcgtccaacatagt	107595	-	see also 13122 line
30044	WEE1	NM_003390.2	3002	aggtccaccaccaggaataag	107653	-	see also 2287 line
30045	WEE1	NM_003390.2	1701	cccgacacgcccagaagtttg	107602	-	see also 2287 line
30046	XAB1	NM_007266.1	165	cactccaccgtatgtatcaacc	107659	-	see also 13124 line
30047	XAB1	NM_007266.1	823	aggaggtatgctcctgaatga	107672	-	see also 13124 line
30048	YES1	NM_005433.2	1343	ctgtatgctcgtttacaataaa	107706	-	see also 13125 line
30049	YES1	NM_005433.2	1347	atggtcgggtttacaataaagtct	107707	-	see also 13125 line
30050	YME1L1	NM_014263.2	957	gtccgcttcgggacacacacagg	107731	-	see also 5570 line
30051	YME1L1	NM_014263.2	1293	aaggcgaatgctcctgtgttat	107742	-	see also 5570 line
30052	ZAK	NM_016653.1	481	aagtcagaagaacctgtgtatagc	107776	-	see also 6967 line
30053	ZAK	NM_016653.1	534	tgtgctcctcgtgttccataacc	107778	-	see also 6967 line
30054	ZAP70	NM_001079.2	726	gccgagcgcaaaccttactctgg	107847	-	see also 13128 line
30055	ZAP70	NM_001079.2	724	aggcggagcgcgaacttactct	107846	-	see also 13128 line
30056	ZCWCC3	NM_015358.1	1946	cccgatgcgaccagggaataact	107919	-	see also 13129 line
30057	ZCWCC3	NM_015358.1	388	ctgggtaaagacgaatcgtttt	107870	-	see also 13129 line
30058	CNGA3	NM_001298.1	525	cccgctcagcaacctgtactacc	107948	-	see also 858 line
30059	CNGA3	NM_001298.1	858	gaggttcaaacgcctactaagt	107952	-	see also 858 line
30060	EPAC	NM_006105.2	915	aactcgttggaagcgagaattagc	107958	-	see also 13131 line
30061	EPAC	NM_006105.2	1307	aggcaggaaacgggtatcacagtga	107965	-	see also 13131 line
30062	HCN2	NM_001194.2	2701	cgcgcctctcgtccaactgtga	107976	-	channel
30063	HCN3	NM_020897.1	393	tccaagtattgtgtatcttt	107980	-	see also 8020 line
30064	HCN3	NM_020897.1	169	agctacaggtcaacaagtctcc	107977	-	see also 8020 line
30065	HCN3	NM_020897.1	1234	cgccttcgaggagatcattaac	107986	-	see also 8020 line
30066	HCN4	NM_005477.1	1740	tcccgctcattcgatatattca	108002	-	see also 13133 line
30067	HCN4	NM_005477.1	1739	ctccgcctcattcgatatattc	108001	-	see also 13133 line
30068	HCN4	NM_005477.1	1112	ctcgggtggacacccgctatcaag	107993	-	see also 13133 line
30069	PRKAR1A	NM_002734.2	455	tggggcatcctatgtagaagaag	108017	-	see also 1773 line
30070	PRKAR1A	NM_002734.2	1157	cccttgaaagtgggttagctgg	108039	-	see also 1773 line
30071	PRKAR2A	NM_004157.1	725	tagaacgggggaaccttatgacatt	108047	-	see also 2797 line
30072	PRKAR2A	NM_004157.1	721	gtcatagaacgggggaacctatga	108046	-	see also 2797 line
30073	PRKAR2B	NM_002736.1	1012	tctggaacgcctgaaagttagtag	108085	-	see also 13136 line
30074	PRKAR2B	NM_002736.1	828	tccggcgaactggccttaattgac	108079	-	see also 13136 line
30075	ACAS2	NM_018677.2	304	gcccaattcctcgggtacacattt	108100	-	see also 7550 line
30076	ADSS	NM_001126.2	1359	tactgcttgggaacttaccgaagt	108153	-	see also 714 line
30077	ADSS	NM_001126.2	1311	ctgcttgggaactcgttttgcctaa	108150	-	see also 714 line
30078	ADSSL1	NM_152328.3	620	ctgggaacctcctcagattttg	108166	-	see also 13139 line
30079	ADSSL1	NM_152328.3	1176	gacgtactcgttgagggttaaaagt	108179	-	see also 13139 line
30080	ADSSL1	NM_152328.3	1125	cacatggtcaacgggattcactgc	108178	-	see also 13139 line
30081	APMCF1	NM_021203.2	232	tgtgattccgggaaacgttgc	108189	-	see also 8138 line
30082	APMCF1	NM_021203.2	252	tgtcttttgtcagattgttaaca	108191	-	see also 8138 line

図 46 (続き)

856

30083	ARF1	NM_001658.2	559	agcgcgcgacggcctctatgaagg	108210	-	see also 13141 line		
30084	ARF1	NM_001658.2	460	gacctcccccaagcccatgaatgc	108209	-	see also 13141 line		
30085	ARF3	NM_001659.1	563	caaccaagggttgatattgtgg	108211	-	signal transduction	small monomeric	-
30086	ARF4	NM_001660.2	229	tcctctctcccgactattgg	108213	-	see also 13142 line	GTPase	
30087	ARF4	NM_001660.2	228	ctcccttctcccgactatttg	108212	-	see also 13142 line		
30088	ARF4L	NM_001661.1	435	gacacagctctagtgttgg	108223	-	see also 13143 line		
30089	ARF4L	NM_001661.1	432	cgggacagcgtctagtgttg	108221	-	see also 13143 line		
30090	ARF5	NM_001662.2	172	atcccaaccatagcttcaatgt	108226	-	signal transduction	protein transporter	-
30091	ARF5	NM_001662.2	345	tgcgatgaactccagaagatgc	108227	-	see also 30090 line		
30092	ARF5	NM_001662.2	126	gaccacaatcctgtacaactga	108225	-	see also 30090 line		
30093	ARF5	NM_001662.2	1236	ttcgggtctgtacgttaggttg	108278	-	see also 1095 line		
30094	ARF5	NM_001662.2	866	gagaatgcccggtcatgtatcg	108267	-	see also 1095 line		
30095	ARF5	NM_001662.2	431	atgaggcatcaacacccataagt	108303	-	see also 5310 line		
30096	ARF5	NM_001662.2	935	ggcccatcgggacacagatgaga	108315	-	see also 5310 line		
30097	ARF5	NM_001662.2	262	aaccgatttaacagaactaca	108320	-	see also 2183 line		
30098	ARF5	NM_001662.2	159	tgcgtgggctgtgtacaagtac	108317	-	see also 2183 line		
30099	ARHA	NM_001664.1	371	taccagataccagatgtatct	108327	-	see also 13148 line		
30100	ARHA	NM_001664.1	373	ccagataccagatgtatctga	108328	-	see also 13148 line		
30101	ARHA	NM_001664.1	410	gacagccctgatagtttagaata	108331	-	see also 13148 line		
30102	ARHB	NM_004040.1	554	ccagaaaggctgcatcaactgc	108337	-	see also 13149 line		
30103	ARHC	NM_175744.3	194	gtctacgtccctactgtcttga	108338	-	signal transduction	Rho small monomeric	breast cancer(乳癌), pancreatic cancer(膵臓癌), melanoma(メラノーマ)
30104	ARHC	NM_175744.3	630	gcctccaggtccgaaagaacag	108339	-	see also 30103 line		
30105	ARHD	NM_014578.2	566	ctcggctcggctccatgacaacg	108342	-	see also 13150 line		
30106	ARHD	NM_014578.2	383	gtgtaaccagaagtgaatcatt	108340	-	see also 13150 line		
30107	ARHE	NM_005168.2	556	tgcgacagatgttagtacatta	108355	-	see also 3637 line		
30108	ARHF	NM_019034.2	202	cccatcggtgtcgagaagtaca	108366	-	see also 13152 line		
30109	ARHF	NM_019034.2	341	atctgctatgacgtcatgaatcc	108367	-	see also 13152 line		
30110	ARHG	NM_001665.1	345	ccctcagaccacggttttgtca	108370	-	see also 13153 line		
30111	ARHG	NM_001665.1	185	tgcctatctgtcacacaactaac	108369	-	see also 13153 line		
30112	ARHGAP1	NM_004308.2	244	aagtgggatgacccatctatga	108372	-	see also 13154 line		
30113	ARHGAP1	NM_004308.2	859	agggagactgtgcctacttaca	108384	-	see also 13154 line		
30114	ARHGEF5	NM_005435.2	1303	ttccgcacggagactcaagtga	108394	-	see also 13155 line		
30115	ARHGEF5	NM_005435.2	1420	tacaagcccccagagagaatgatga	108396	-	see also 13155 line		
30116	ARHGEF5	NM_005435.2	1225	aagctacatggactcacaataaa	108392	-	see also 13155 line		
30117	ARHH	NM_004310.1	1121	ggctctctccatcaatgagtc	108400	-	see also 13156 line		
30118	ARHI	NM_004675.1	341	gagtaactcgcggaccattgaata	108402	-	see also 13157 line		
30119	ARHI	NM_004675.1	344	tacctgcggaccattgaataatc	108403	-	see also 13157 line		
30120	ARHJ	NM_020663.2	833	ctcatagggaccagatgatct	108409	-	see also 13158 line		
30121	ARHJ	NM_020663.2	877	ggcccggttgcgttatataaag	108413	-	see also 13158 line		
30122	ARHN	NM_005440.2	88	gacgctatcccgaggagttatgt	108417	-	see also 13159 line		
30123	ARHN	NM_005440.2	90	cgccctatcccgaggagttatgcc	108418	-	see also 13159 line		
30124	ARHT1	NM_018307.2	1426	tcctactatgcgactaaactgt	108467	-	see also 7378 line		

図46 (続き)

857

30125	ARHT1	NM_018307.2	1161	gacgtcacgactatttagatg	108453	-	see also 7378 line
30126	ARHT2	NM_138769.1	1582	cagcgtctacaagcaccattaca	108487	-	see also 13161 line
30127	ARHT2	NM_138769.1	627	aggcgtgacgcgcattcttcagg	108482	-	see also 13161 line
30128	ARHU	NM_021205.3	1274	gcctatgcctgctggcattcaata	108492	-	see also 13162 line
30129	ARHU	NM_021205.3	1106	cagtcggatctcagagagaagatgt	108488	-	see also 13162 line
30130	ARHV	NM_133639.2	547	gacgatcaacgactactattca	108495	-	see also 13163 line
30131	ARHV	NM_133639.2	662	cagccttgacgcagagaaacttg	108496	-	see also 13163 line
30132	ARL1	NM_001177.3	439	gagaccgaattggcatttccaaa	108507	-	see also 13164 line
30133	ARL1	NM_001177.3	586	ctgccttgaaagaccgaaaatgg	108508	-	see also 13164 line
30134	ARL3	NM_004311.2	293	cacacctacacagagtttcaaca	108514	-	see also 13165 line
30135	ARL3	NM_004311.2	320	aagtgtacatcacagagtttta	108517	-	see also 13165 line
30136	ARL3	NM_004311.2	295	cacctacacagaggtttcaacatc	108515	-	see also 13165 line
30137	ARL5	NM_012097.2	634	tagcgcgatgagaccctaagaaaa	108535	-	see also 5127 line
30138	ARL5	NM_012097.2	819	atagtgcacgacttaagattag	108541	-	see also 5127 line
30139	ARL6	NM_032146.3	712	accgtgaattccaactttattc	108555	-	see also 9083 line
30140	ARL6	NM_032146.3	711	cacccgtgaattccaactttatt	108554	-	see also 9083 line
30141	ARL6	NM_032146.3	436	gtggcaaacgcgacgatcattaac	108545	-	see also 9083 line
30142	ARL6IP2	NM_022374.1	1283	gtggcgataaaacaatttcgttc	108604	-	see also 8355 line
30143	ARL6IP2	NM_022374.1	121	gacctcctcctagtgagaattatg	108564	-	see also 8355 line
30144	ARL6IP2	NM_022374.1	1284	tgccgataaaacaatttcgttca	108605	-	see also 8355 line
30145	ARL8	NM_178815.2	517	gacagggagacactagctattac	108627	-	see also 13169 line
30146	ARL8	NM_178815.2	521	gggaacgactagctattacaata	108629	-	see also 13169 line
30147	C14orf159	NM_024952.3	2167	ctcccgctggctatttaaggaaga	108660	-	see also 13170 line
30148	C14orf159	NM_024952.3	1588	aaggaggtgcctcataatcgttga	108643	-	see also 13170 line
30149	CDC10	NM_001788.2	91	ggcaatctccaatacaatcaagata	108661	-	cell cycle
30150	CDC10	NM_001788.2	95	atctcccaatacaagtatacaga	108662	-	see also 30149 line
30151	CDC10	NM_001788.2	97	ctcccaatacaagtatacagaaa	108663	-	see also 30149 line
30152	CDC42	NM_001791.2	160	tcctgatatactacacacaaac	108667	-	see also 13171 line
30153	CDC42	NM_001791.2	157	gtctcctgatactctacacaca	108666	-	see also 13171 line
30154	CDC42	NM_001791.2	136	atggtgctgtgtgtaaaacatgt	108665	-	see also 13171 line
30155	DIRAS2	NM_017594.2	323	agcccatctacgaacaaatctgc	108673	-	see also 13172 line
30156	DIRAS2	NM_017594.2	483	agccaagctcaaccataaactga	108675	-	see also 13172 line
30157	DIRAS2	NM_017594.2	557	tcagagatcgacgggaaaaagagc	108676	-	see also 13172 line
30158	DKFZP564J0863	NM_015459.2	909	tacgggtcgtctggcaatggatga	108683	-	see also 13173 line
30159	DKFZP564J0863	NM_015459.2	1288	gtcggggactactggagttattt	108695	-	see also 13173 line
30160	DNCL1	NM_016141.1	755	acctctgggtcgggatacactta	108723	-	see also 6690 line
30161	DNCL1	NM_016141.1	1139	aactaaaccacctgttcgaagt	108734	-	see also 6690 line
30162	DNCL1	NM_016141.1	786	ttgggcattccagctactagtagt	108726	-	see also 6690 line
30163	DNM1	NM_004408.1	1143	agcccgcatcaaccgaatcttcc	108754	-	see also 13175 line
30164	DNM1	NM_004408.1	1176	ccctttggagctgggtcaagatgg	108755	-	see also 13175 line
30165	DNM1L	NM_005690.2	2015	agctagtagccagctgtataaa	108834	-	see also 3950 line
30166	DNM1L	NM_005690.2	1894	gagattattgaacgactcattaa	108827	-	see also 3950 line

structural molecule|neuroblastoma(神経芽細胞腫)

858

図46 (続き)

30167	DNM2	NM_004945.1	1026	ggccctacgtagcaaacactacaga	108852	-	see also 3443 line
30168	DNM2	NM_004945.1	1514	agcgaatcgtcaccactacatc	108860	-	see also 3443 line
30169	DRG2	NM_001388.3	666	agctcatcctgcacgaatacaag	108873	-	see also 13178 line
30170	DRG2	NM_001388.3	338	accactctgaagtgattctctgg	108889	-	see also 13178 line
30171	FLJ10101	NM_024718.2	692	ctgcaaacggggtgctatgtgt	108881	-	see also 13179 line
30172	FLJ10101	NM_024718.2	729	cagtggaccttaattacattct	108882	-	see also 13179 line
30173	FLJ10702	NM_018184.1	292	atcggctcagctcaattcagtg	108885	-	see also 13180 line
30174	FLJ10702	NM_018184.1	354	aactaaagtgtaacgcacataa	108888	-	see also 13180 line
30175	FLJ10849	NM_018243.2	498	cagctataagccgtagtagaat	108919	-	see also 13181 line
30176	FLJ10849	NM_018243.2	499	agctataagccgtagtagaata	108920	-	see also 13181 line
30177	FLJ21665	NM_024803.1	702	atcgtaaacctcgggtggaatgc	108941	-	see also 13182 line
30178	FLJ21665	NM_024803.1	368	tacggcgagggcggtactctgt	108934	-	see also 13182 line
30179	FLJ22595	NM_025047.1	432	accgatggcgtggtgtgtgtgt	108962	-	see also 13183 line
30180	FLJ22595	NM_025047.1	189	atgggttcgctgggttcttaaaa	108956	-	see also 13183 line
30181	FLJ22655	NM_024730.2	498	atccgggggcccacaaactagtca	108969	-	see also 13184 line
30182	FLJ22655	NM_024730.2	556	ttggcaacaacgagatcttgt	108972	-	see also 13184 line
30183	FLJ25410	NM_144805.1	1018	tacggcgtcatcagactcaatga	108983	-	see also 13185 line
30184	FLJ25410	NM_144805.1	1021	cgcgtcatcagactcaatgaag	108985	-	see also 13185 line
30185	FLJ39249	NM_173864.2	666	ctgggtctacaggctatcgataa	108989	-	see also 13186 line
30186	FLJ39249	NM_173864.2	668	gggtctacaggctatcgataacc	108991	-	see also 13186 line
30187	GBP1	NM_002053.1	1822	gaacgaaggcagctaccataagc	108993	-	see also 13187 line
30188	GBP2	NM_004120.3	869	ttggagcttctgctaaagctaaag	108995	-	see also 13188 line
30189	GBP2	NM_004120.3	873	agcttctgctaaagctaaagaaa	108997	-	see also 13188 line
30190	GBP3	NM_018284.1	1762	aggaacagcccgagactataag	109016	-	see also 13189 line
30191	GBP3	NM_018284.1	1796	aggtaagtagtaccacactcaaa	109018	-	see also 13189 line
30192	GBP4	NM_052941.2	1410	aacaggttgagggaactataag	109032	-	see also 13190 line
30193	GBP4	NM_052941.2	393	tgggctgatgtagaanaagagtaac	109025	-	see also 13190 line
30194	GBP5	NM_052942.2	1716	ctggaagcatctctggattattg	109043	-	see also 13191 line
30195	GBP5	NM_052942.2	2238	cagcccgagagcagctgttaataa	109050	-	see also 13191 line
30196	GEM	NM_005261.2	841	tgcgagagaagtgtctgtatcaga	109057	-	see also 13192 line
30197	GEM	NM_005261.2	613	ggggaaaagtgaacagattatact	109054	-	see also 13192 line
30198	GNA12	NM_007353.1	560	accggatcggccagctgaattac	109065	-	see also 13193 line
30199	GNA12	NM_007353.1	561	ccggatcggccagctgaattact	109066	-	see also 13193 line
30200	GNA13	NM_006572.3	1130	tccgtgacgtgaaggactactatt	109093	-	see also 4606 line
30201	GNA13	NM_006572.3	357	tgcctcgagagaagcttcatattc	109072	-	see also 4606 line
30202	GNA14	NM_004297.2	778	agcgatggagacgcgtaaaggatc	109098	-	see also 2880 line
30203	GNA14	NM_004297.2	997	ccgcatcgccacaccactaatcgc	109104	-	see also 2880 line
30204	GNA15	NM_002068.1	1004	tgggaactaccctgggttcaaaagc	109117	-	see also 1335 line
30205	GNA15	NM_002068.1	915	ggcctcactgagtgaatacagcc	109116	-	see also 1335 line
30206	GNA11	NM_002069.4	1178	agccctctcactatgtctatcc	109146	-	see also 13197 line
30207	GNA11	NM_002069.4	763	atcccgagagtagcagctaatg	109131	-	see also 13197 line
30208	GNA12	NM_002070.1	159	ggccgagcgtctaaagatgatcg	109148	-	see also 13198 line
30209	GNA12	NM_002070.1	647	tgtctacggaccgggtaagacc	109152	-	see also 13198 line
30210	GNA13	NM_006496.1	301	ggcatggagacggctaaagattga	109162	-	see also 13199 line

859

図46 (続き)

30211	GNAI3	NM_006496.1	300	agccatggacggcctaagattg	109161	-	see also 13199 line	
30212	GNAL	NM_002071.1	1056	gtggtacgaccattctatca	109198	-	see also 1336 line	
30213	GNAL	NM_002071.1	1054	agggtgttacggaccattctat	109197	-	see also 1336 line	
30214	GNAO1	NM_020988.1	273	ggcgcataatattggtataagg	109212	-	see also 13201 line	
30215	GNAO1	NM_020988.1	614	agcgcctgacgcgaagaatgg	109215	-	see also 13201 line	
30216	GNAS	NM_000516.3	339	aacctgaagagggcgattgaac	109224	-	see also 13202 line	
30217	GNAS	NM_000516.3	340	acctgaagagggcgattgaac	109225	-	see also 13202 line	
30218	GNAT1	NM_000172.2	504	tcggatccagccctgttttga	109242	-	see also 13203 line	
30219	GNAT1	NM_000172.2	506	cggatccagccctgttttgc	109243	-	see also 13203 line	
30220	GNAT1	NM_000172.2	944	ggcgacactcagcattctgtcc	109245	-	see also 13203 line	
30221	GNAT2	NM_005272.2	1103	atgatcgagggaattacataag	109259	-	see also 13204 line	
30222	GNAT2	NM_005272.2	985	ttcttggcggtacttctcattgt	109257	-	see also 13204 line	
30223	GNAT2	NM_005272.2	1036	gacgtcatcatcacagacaatct	109267	-	see also 1338 line	
30224	GNAI	NM_005275.2	2504	ggcggctcgggaatgatgtaca	109289	-	see also 13206 line	
30225	GNAI	NM_005275.2	1249	gaggctacgaccacaatcgatc	109270	-	see also 13206 line	
30226	GTPBP4	NM_012341.1	1844	ggcgatagacacagtggttgata	109339	-	see also 5299 line	
30227	GTPBP4	NM_012341.1	59	gocgtccgccaaggactctcatg	109290	-	see also 5299 line	
30228	GTPBP4	NM_012341.1	251	tcggtctatgctgatttgatga	109299	-	see also 5299 line	
30229	GTPBP5	NM_015666.2	1243	acggcaatcgtcgcaacaagatt	109350	-	see also 13208 line	
30230	GTPBP5	NM_015666.2	1244	cgcaatcgtcgcaacaagattg	109351	-	see also 13208 line	
30231	HRAS	NM_005343.1	88	gacgaatacagcccccaactataga	109353	-	cell_cycle, signal_transduction	皮膚、congenital neutropenia(コストマン型先天性好中球減少症)、colorectal cancer(大腸癌)、bladder cancer(膀胱癌)、breast cancer(乳癌)、lung cancer(肺癌)、ovarian cancer(原発性卵巣癌)、colorectal cancers(結腸直腸癌)、non-small-cell lung cancer(非小細胞肺癌)、head and neck squamous cell carcinoma(頭頸部扁平上皮細胞癌)
30232	HUMAUJAN TIG	NM_013285.1	447	atcgaatccggcctcataacttg	109359	-	see also 5386 line	
30233	TIG	NM_013285.1	531	aacgacaaaactattttgcaagt	109363	-	see also 5386 line	
30234	KBRAS2	NM_017595.4	309	agcaggctcggtttctatgaccc	109411	-	see also 13209 line	
30235	KIAA0820	NM_015569.1	2697	caccacactcgtcccactataatc	109468	-	see also 6486 line	
30236	KIAA0820	NM_015569.1	2698	accacactcgtcccactataatcc	109469	-	see also 6486 line	
30237	KIAA0820	NM_015569.1	1230	gtggtgctaaaatcaatcgtatt	109438	-	see also 6486 line	
30238	KRAS2	NM_004985.3	269	gacgaataatgatccacaataga	109471	-	see also 3479 line	
30239	KRAS2	NM_004985.3	243	tacgaataatcgaatcaatttt	109470	-	see also 3479 line	
30240	LOC12782	NM_138795.2	235	cacgctgtcgtggcttcagttct	109487	-	signal_transduction	-
30241	LOC12782	NM_138795.2	563	gacctccggagcatttgatga	109488	-	see also 30240 line	
30242	LOC12782	NM_138795.2	683	accttaccgtggctattcaaca	109489	-	see also 30240 line	
30243	LOC51277	NM_016544.1	672	tgcattcgcagaattcgaaata	109514	-	see also 6910 line	
30244	LOC51277	NM_016544.1	466	accacaacatcgtctgttgatga	109504	-	see also 6910 line	
30245	LOC51762	NM_016530.1	534	tggagacaagcgcaaatccagt	109521	-	see also 13212 line	

860

図46 (続き)

30246	LOC51762	NM_016530.1	582	cacttgacagagataataatgaca	109522	-	see also 13212 line
30247	MEL	NM_005370.4	374	agctcgatggcaagaataataa	109527	-	see also 13213 line
30248	MEL	NM_005370.4	555	tgcagaactgtgaaagatgatgac	109533	-	see also 13213 line
30249	MEL	NM_005370.4	552	ctctgcagacgtgaaaaagatga	109532	-	see also 13213 line
30250	MGC10731	NM_030907.2	523	gcccgtgctgcattgctgtttt	109550	-	see also 13214 line
30251	MGC10731	NM_030907.2	571	cactcaaaagtctgcataatg	109552	-	see also 13214 line
30252	MGC10731	NM_030907.2	524	cogtctgctgctgttctgtttg	109551	-	see also 13214 line
30253	MGC2827	NM_023940.2	332	tccggttccctcaacaacgattc	109557	-	see also 13215 line
30254	MGC2827	NM_023940.2	374	atgcaggtaatactctatactaga	109561	-	see also 13215 line
30255	MGC4083	NM_032525.1	204	gtcactgtctcagaataatgtgc	109567	-	see also 13216 line
30256	MGC4083	NM_032525.1	279	tgggccttttgggcagcgttttc	109568	-	see also 13216 line
30257	MGC45806	NM_152304.1	434	tggagacctcgtgtttaaacaac	109569	-	signal transduction -
30258	MGC9726	NM_177403.3	534	tggctgcatctagcttttgatg	109574	-	see also 13217 line
30259	MGC9726	NM_177403.3	381	gacgtttatagagaataaccaga	109570	-	see also 13217 line
30260	MRAS	NM_012219.2	521	ttoaatgacctgttagagtaat	109585	-	see also 13218 line
30261	MRAS	NM_012219.2	461	cacaatattcgtacataagaac	109584	-	see also 13218 line
30262	MRAS	NM_012219.2	522	tccatgacctcgttagagtaatt	109586	-	see also 13218 line
30263	MSF	NM_006640.2	1232	gtccaatcagcacgataatgagg	109593	-	see also 13219 line
30264	MSF	NM_006640.2	1760	gtgggggtaccatcgaagtgaac	109599	-	see also 13219 line
30265	MX1	NM_002462.2	856	gtcccggtatgtactctataaga	109609	-	see also 13220 line
30266	MX1	NM_002462.2	858	cccgatcgtactctaatagaac	109610	-	see also 13220 line
30267	MX2	NM_002463.1	1902	ctggggagacgcttcacagaatat	109653	-	see also 13221 line
30268	MX2	NM_002463.1	1904	ggggagcgccttcacagaatatga	109655	-	see also 13221 line
30269	NEDD5	NM_004404.1	971	ctgtgttgatccaatcaattg	109670	-	see also 13222 line
30270	NEDD5	NM_004404.1	690	taggggtcattgttgcttttact	109667	-	see also 13222 line
30271	NRAS	NM_002524.2	611	tggccacagagcagctgtgatac	109678	-	see also 13223 line
30272	NRAS	NM_002524.2	517	gtcatttggagataataacctct	109677	-	see also 13223 line
30273	OPAI	NM_015560.1	432	taccggacaccttagtaataaa	109696	-	see also 6473 line
30274	OPAI	NM_015560.1	1084	tagttctcggagtttgatotta	109716	-	see also 6473 line
30275	OPAI	NM_015560.1	2839	tactgtgtaaacgcttcaactgg	109781	-	see also 6473 line
30276	PKC1	NM_002591.2	1784	ttaaacccggatcgtatggaaaagc	109807	-	see also 13225 line
30277	PKC1	NM_002591.2	716	ggcgatggagggttgtaaatg	109798	-	see also 13225 line
30278	PKC2	NM_004563.1	1448	tgggtatcacggcgttcaactgg	109830	-	see also 13226 line
30279	PKC2	NM_004563.1	617	tggtaggaagcatgcgtattatg	109818	-	see also 13226 line
30280	PGPL	NM_012227.1	536	tgcaccgaccagaagaagactgg	109834	-	see also 13227 line
30281	PGPL	NM_012227.1	670	cgtgtcacaggtcgaacttgaaa	109835	-	see also 13227 line
30282	PNUTL1	NM_002688.2	339	gacgttagagatcttaaacaca	109841	-	see also 13228 line
30283	PNUTL1	NM_002688.2	337	cagacggtagagattctaaacaa	109840	-	see also 13228 line
30284	PNUTL2	NM_004574.2	234	aagttcgtgaagatttctcagg	109845	-	see also 3111 line
30285	PNUTL2	NM_004574.2	456	ggcaagcttgatccctatgattc	109846	-	see also 3111 line
30286	PTD004	NM_013341.2	158	ttcccggttctgacctattgacc	109865	-	see also 13230 line
30287	PTD004	NM_013341.2	119	ttcaatgtttaaccaatagta	109863	-	see also 13230 line
30288	RAB11A	NM_004663.3	340	agcgatatcagctataaacata	109889	-	see also 3184 line
30289	RAB11B	NM_004218.1	469	gccttggtattccactaacgtaga	109902	-	see also 13232 line

図 46 (続き)

861

30290	RAB11B	NM_004218.1	480	cactaacatagagagaagcattca	109903	-	see also 13232 line
30291	RAB11B	NM_004218.1	425	gcgccttcgcgagaaagacaac	109900	-	see also 13232 line
30292	RAB14	NM_016322.2	432	agctcgggagcctcttatgtct	109915	-	see also 6810 line
30293	RAB14	NM_016322.2	631	ttctcgaagcgggtcaaaac	109924	-	see also 6810 line
30294	RAB17	NM_022449.1	1153	gtcgaaggtttcaatacagtg	109933	-	see also 13234 line
30295	RAB17	NM_022449.1	751	ggcttctcgaagcgaagaacg	109927	-	see also 13234 line
30296	RAB17	NM_022449.1	1149	aggtgtcggagggttcaataca	109932	-	see also 13234 line
30297	RAB18	NM_021252.3	287	aggtgcacagggtttatattag	109938	-	see also 8145 line
30298	RAB18	NM_021252.3	252	gagagtttagaacataactcc	109936	-	see also 8145 line
30299	RAB1A	NM_004161.2	424	aggagcccatggcatcatagtg	109959	-	see also 2798 line
30300	RAB2	NM_002865.1	335	ttcgggtcctgaatgataactat	109978	-	see also 13237 line
30301	RAB2	NM_002865.1	337	cgggtcctgaatgataactattg	109980	-	see also 13237 line
30302	RAB2	NM_002865.1	336	tcgggtcctgaatgataactatt	109979	-	see also 13237 line
30303	RAB20	NM_017817.1	752	agcgccaagcagcggtacaaatgt	109996	-	see also 13238 line
30304	RAB20	NM_017817.1	754	cgccaagaccggcctacaaatgtg	109997	-	see also 13238 line
30305	RAB21	NM_014999.1	365	tgcgtactcgagagaacaagttt	109999	-	see also 13239 line
30306	RAB21	NM_014999.1	496	ttcaatgcattgggtccaattta	110003	-	see also 13239 line
30307	RAB22A	NM_020673.2	665	gactacgcccgaactatctatgc	110035	-	see also 7914 line
30308	RAB22A	NM_020673.2	703	cagcgcaaaaaacgcgataaaca	110040	-	see also 7914 line
30309	RAB22A	NM_020673.2	493	gtcgtcgcagcctaataatogttt	110026	-	see also 7914 line
30310	RAB23	NM_016277.3	1165	aactaacattcaagtagtaac	110058	-	see also 13241 line
30311	RAB23	NM_016277.3	945	ggcgaagtgaggagatacaaac	110051	-	see also 13241 line
30312	RAB24	NM_130781.1	647	gaccgactgtgacattaggtat	110065	-	see also 13242 line
30313	RAB24	NM_130781.1	648	accggactgtgacattaggtatt	110066	-	see also 13242 line
30314	RAB27A	NM_004580.3	858	gactacaggtatcagtaagtga	110086	-	see also 3119 line
30315	RAB27A	NM_004580.3	860	ctctacaggtatcagtaagtgaag	110087	-	see also 3119 line
30316	RAB27B	NM_004163.3	568	gacaaatatggcataccatattt	110093	-	see also 13244 line
30317	RAB27B	NM_004163.3	384	cgccatggcgtctcttataatgt	110090	-	see also 13244 line
30318	RAB28	NM_004249.1	263	gggtcctcttggtatgatatt	110099	-	see also 13245 line
30319	RAB28	NM_004249.1	257	cacaggaggtcctcttggtatat	110096	-	see also 13245 line
30320	RAB2B	NM_032846.2	190	gtccacagccctcaaataggtgt	110109	-	see also 9310 line
30321	RAB2B	NM_032846.2	222	agctcgtatggtcaaacattggtg	110110	-	see also 9310 line
30322	RAB30	NM_014488.3	327	gactgtcctcgtccgaagattca	110118	-	see also 5704 line
30323	RAB30	NM_014488.3	331	tgctcgtcgaagattcaactca	110119	-	see also 5704 line
30324	RAB31	NM_006868.2	486	aagtgccacctctcagatattag	110146	-	see also 4807 line
30325	RAB31	NM_006868.2	134	ggcgatacgggaggtcaaatgtgt	110133	-	see also 4807 line
30326	RAB32	NM_006834.2	516	tcacatttgaggcagcttaaa	110150	-	see also 13249 line
30327	RAB32	NM_006834.2	593	tgtgtcctcttggtcctaacaat	110151	-	see also 13249 line
30328	RAB33A	NM_004794.2	827	ggcgaacgtggagtcattttc	110164	-	see also 13250 line
30329	RAB33A	NM_004794.2	863	ggcggattgaagcccgagaatcc	110165	-	see also 13250 line
30330	RAB33B	NM_031296.1	412	cgtctcgaagcgaagctttcgtcc	110170	-	see also 9007 line
30331	RAB33B	NM_031296.1	1014	cagccccctgaatgaattat	110195	-	see also 9007 line
30332	RAB34	NM_031934.3	948	tgcattgcataccactactatg	110202	-	see also 9056 line
30333	RAB34	NM_031934.3	674	cgcttgacaggcgacaaagact	110198	-	see also 9056 line

862

図46 (続き)

30334	RAB35	NM_006861.4	444	agcgtggttcacgaatcaac	110213	-	see also 4806 line
30335	RAB35	NM_006861.4	710	aagctcacgaagaacagtaaacg	110219	-	see also 4806 line
30336	RAB36	NM_004914.2	463	caggttttgaagaatgttttg	110224	-	see also 13254 line
30337	RAB37	NM_175738.2	1045	ttccagatccgagactatagaga	110235	-	see also 13255 line
30338	RAB37	NM_175738.2	714	aagcgtacccatgctttatca	110227	-	see also 13255 line
30339	RAB38	NM_022337.1	495	cacggtttctaggatgttga	110241	-	see also 8331 line
30340	RAB38	NM_022337.1	581	tgcataatgagtgacctaattgg	110246	-	see also 8331 line
30341	RAB39	NM_017516.1	303	tactaacgcagatcttttgaac	110256	-	see also 13257 line
30342	RAB39	NM_017516.1	307	aaccgaacgttttgaacatgt	110257	-	see also 13257 line
30343	RAB39B	NM_171998.1	496	ttcagcctaccataattgtattt	110267	-	see also 10029 line
30344	RAB39B	NM_171998.1	593	tgcatacggcatgaagtacattg	110271	-	see also 10029 line
30345	RAB3A	NM_002866.3	189	ttcgaactacatgttoagattct	110277	-	signal transduction protein transporter -
30346	RAB3B	NM_002867.2	128	ggcttcagtgacagatgtaaaa	110278	-	signal transduction protein transporter -
30347	RAB3B	NM_002867.2	407	ggccatggcttcttctgtgt	110279	-	see also 30346 line
30348	RAB3C	NM_138453.2	459	tacaagatggccaactcaaatc	110289	-	see also 13258 line
30349	RAB3C	NM_138453.2	399	gtggagccatgggcttatttta	110287	-	see also 13258 line
30350	RAB3D	NM_004283.2	424	gacgctctacccgcatgacaaga	110294	-	see also 13259 line
30351	RAB3D	NM_004283.2	302	atgttcaaacgtctactgatagg	110293	-	see also 13259 line
30352	RAB40B	NM_006822.1	352	gacgcattgatcgtatgattaa	110296	-	signal transduction -
30353	RAB40C	NM_021168.1	124	gtcccttaccctcactacagtaacg	110297	-	see also 13260 line
30354	RAB40C	NM_021168.1	825	cgcggagtaactcgaagatccc	110300	-	see also 13260 line
30355	RAB4A	NM_004578.2	217	gacggccatgtccgaacacctacg	110301	-	see also 3117 line
30356	RAB4A	NM_004578.2	433	caggtccgtagcagagaagtatt	110306	-	see also 3117 line
30357	RAB4B	NM_016154.2	1174	gtcagtgacgcggaggttattacc	110325	-	see also 13262 line
30358	RAB4B	NM_016154.2	1458	ccgcctactctctcaacaagatt	110326	-	see also 13262 line
30359	RAB5A	NM_004162.3	478	aagcctagtgcttctgttttga	110331	-	see also 2800 line
30360	RAB5A	NM_004162.3	733	gaggcaagcaagtcctcaacattg	110339	-	see also 2800 line
30361	RAB5B	NM_002868.2	444	atcgtgtttaaagacattactaa	110357	-	see also 13264 line
30362	RAB5B	NM_002868.2	517	agggcagctctagcatctgtatt	110359	-	see also 13264 line
30363	RAB5C	NM_004583.1	635	ctgcaatgaacgtgaacgaaatc	110369	-	see also 13265 line
30364	RAB5C	NM_004583.1	636	tgcatagaacgtgaacgaaatc	110370	-	see also 13265 line
30365	RAB6B	NM_016577.1	420	ctctgattacgaggttcattgac	110376	-	see also 6921 line
30366	RAB6B	NM_016577.1	407	gtcgggaagacgtctctgtattac	110375	-	see also 6921 line
30367	RAB6B	NM_016577.1	338	atgtccgacggagagatttgg	110374	-	see also 6921 line
30368	RAB7	NM_004637.5	565	ttcccgagatcctgaacacttc	110387	-	see also 13266 line
30369	RAB7	NM_004637.5	478	ctgtcgtctctgtatttgg	110383	-	see also 13266 line
30370	RAB7L1	NM_003929.1	242	gagcgttccctctatgacacg	110397	-	see also 13267 line
30371	RAB7L1	NM_003929.1	532	ggctatgagagtcctattgaaa	110402	-	see also 13267 line
30372	RAB9A	NM_004251.3	612	gacaaaggcactatctctattt	110408	-	see also 2856 line
30373	RAB9A	NM_004251.3	245	ttcacttatgaacagatagtaa	110405	-	see also 2856 line
30374	RAB9B	NM_016370.1	358	aaccgttacgtaacccaacaaatt	110411	-	see also 6842 line
30375	RAB14	NM_006860.2	596	ggagagatcccaatgtcttatgt	110422	-	see also 13269 line
30376	RAB14	NM_006860.2	809	ttgaacatccgtgaagagatg	110426	-	see also 13269 line

圖46 (續七)

863

[illegible]

864

図46 (続き)

30419	RRAGA	NM_006570.3	328	gtgataatcttgcgaattaca	110769	-	see also 13289 line
30420	RRAGA	NM_006570.3	501	tcgtaacgtggaagtttgatt	110772	-	see also 13289 line
30421	RRAGB	NM_006064.2	766	tagccaacaggacaacatcttcc	110787	-	see also 13290 line
30422	RRAGB	NM_006064.2	1052	aagccttggtccagcatagtta	110791	-	see also 13290 line
30423	RRAS2	NM_012250.3	803	atgaacttgccgggttaccagg	110825	-	see also 13291 line
30424	RRAS2	NM_012250.3	482	ccgggtagatattttggataca	110814	-	see also 13291 line
30425	SARA1	NM_020150.3	439	ttctgcctcgtggaatccaag	110833	-	see also 13292 line
30426	SARA1	NM_020150.3	699	ggctctccagtatattgactga	110838	-	see also 13292 line
30427	SARA1	NM_020150.3	212	ttcttggttggaataagcagg	110830	-	see also 13292 line
30428	SARA2	NM_016103.2	634	atcccgacccttgaagtcttc	110849	-	see also 13293 line
30429	SARA2	NM_016103.2	635	tgcccgaaccttagaagtttca	110850	-	see also 13293 line
30430	1.Sep	NM_052838.2	657	ggcagtcacacgagaagtcac	110861	-	see also 13294 line
30431	1.Sep	NM_052838.2	658	ggcagtcacacgagaagtcaca	110862	-	see also 13294 line
30432	10.Sep	NM_144710.2	940	gacactgatctcttaaccatga	110866	-	see also 13295 line
30433	3.Sep	NM_019106.4	899	agggtctctggccgaaacatcc	110888	-	see also 13296 line
30435	3.Sep	NM_019106.4	966	ccctgtctcgagactttgtcatc	110890	-	see also 13296 line
30436	3.Sep	NM_019106.4	494	ccattgagaagtacatcaatga	110884	-	see also 13296 line
30437	6.Sep	NM_015129.4	546	ggctaaagctcacgatcttagc	110895	-	see also 13297 line
30438	6.Sep	NM_015129.4	832	ttcgaagagtgagctacaaga	110898	-	see also 13297 line
30439	SGNE1	NM_003020.1	322	gactggagacacattctcaagg	110905	-	see also 13298 line
30440	SGNE1	NM_003020.1	402	cagatgatggatgtctagaana	110906	-	see also 13298 line
30441	SRPR	NM_003139.2	1245	gcacagcgtcgtgtagacatgc	110924	-	see also 13298 line
30442	SRPR	NM_003139.2	1315	acctctgcgcgttaattggagt	110925	-	see also 13298 line
30443	SUCLG1	NM_003849.1	127	ttctggcaacatctctatgttg	110935	-	see also 13300 line
30444	SUCLG1	NM_003849.1	124	agctctcggcaacatctctatg	110934	-	see also 13300 line
30445	SUCLG1	NM_003849.1	331	aacggctctctgctattatgttc	110941	-	see also 13300 line
30446	TUBA1	NM_006000.1	367	tgccctgtgtactataccattg	110951	-	see also 13301 line
30447	TUBA1	NM_006000.1	362	aactatgccggtggcactatag	110949	-	see also 13301 line
30448	TUBA4	NM_025019.1	445	gagtggttctgttaactatgg	110955	-	see also 13302 line
30449	TUBA8	NM_018943.1	725	gacattgagcgcctactatcac	110960	-	see also 13303 line
30450	TUBA8	NM_018943.1	184	tgctcaagctagcaagatcaacg	110958	-	see also 13303 line
30451	TUBA8	NM_018943.1	991	cccgagacatggcaagatcacatg	110962	-	see also 13303 line
30452	TUBB1	NM_030773.1	154	aacgaagcctacaggtaggaaata	110965	-	see also 13304 line
30453	TUBB1	NM_030773.1	476	accggagccggatcatgaattcc	110974	-	see also 13304 line
30454	TUBB4	NM_006086.1	248	atctctcaggccctgacaatttc	110982	-	structural constituent of cytoskeleton
30455	TUBD1	NM_016261.1	443	caggattaggagcttctgttaca	110991	-	see also 13306 line
30456	TUBD1	NM_016261.1	971	ttctctcttaagtaaaatgtct	111019	-	see also 13306 line
30457	TUBE1	NM_016262.3	223	agcacgagcagcttctgttgata	111030	-	see also 13307 line
30458	TUBE1	NM_016262.3	225	cacgagcagcttctgttgatag	111031	-	see also 13307 line
30459	TUBE1	NM_016262.3	572	gtcataaactcaacttatataag	111044	-	see also 13307 line
30460	TUBG1	NM_001070.3	507	ctgggttctacactctcttagaacg	111061	-	see also 13308 line

図46 (続き)

865

30461	TUBG1	NM_001070.3	552	aagctggtgcagacatactcagt	111062	-	see also 13308 line
30462	TUBG2	NM_016437.1	1419	ttctgtccagcagtttgacaagc	111066	-	see also 13309 line
30463	TUBG2	NM_016437.1	1515	cagctctaggaggtttgttcagg	111067	-	see also 13309 line
30464	VTS8635	NM_033315.2	562	acgacatctgctgtttgacagc	111069	-	see also 13310 line
30465	ZNF179	NM_007148.2	744	gcctcgcaggggcatatggatg	111071	-	see also 13311 line
30466	ZNF179	NM_007148.2	1520	gcacacaaagcgcataattctgc	111074	-	see also 13311 line
30467	CNGA1	NM_000087.1	1700	atcgaggaacggcccaattataa	111126	-	see also 66 line
30468	CNGA1	NM_000087.1	637	taogtatcagacatagtctattt	111092	-	see also 66 line
30469	PDE10A	NM_006661.1	1008	tactcagacatacaaaacatat	111166	-	see also 4709 line
30470	PDE10A	NM_006661.1	2170	gacgggatacctaataacctaata	111195	-	see also 4709 line
30471	PDE10A	NM_006661.1	442	caggtaaccaagatacgaatatgc	111142	-	see also 4709 line
30472	PDE5A	NM_001083.2	1608	aaccgaatagcagaacagttct	111247	-	see also 677 line
30473	PDE5A	NM_001083.2	816	atccgttagaattggacaagaag	111223	-	see also 677 line
30474	C5orf3	NM_018691.1	1196	aaccgaatagcagaacagttct	111288	-	see also 7564 line
30475	C5orf3	NM_018691.1	1935	atgctcttaacccataatcaat	111302	-	see also 7564 line
30476	LOC56851	NM_020154.1	330	atccgctcaggtggatatacact	111313	-	see also 7772 line
30477	LOC56851	NM_020154.1	332	ccggttcaggtggatatacactc	111314	-	see also 7772 line
30478	BIRC1	NM_004536.1	712	tacgacataaagggtgaagaatct	111337	-	see also 13317 line
30479	BIRC1	NM_004536.1	627	cacgagactcccatagagaagacc	111335	-	see also 13317 line
30480	DHRS3	NM_004753.3	915	tgcatacctcgttatcttggaaa	111356	-	see also 13318 line
30481	DHRS3	NM_004753.3	910	gacaatgcgtccctcgttatct	111355	-	see also 13318 line
30482	LTB4R	NM_181657.1	1986	ggcgctgtgtcaactatgtctgc	111362	-	nucleotide binding -
30483	LTB4R	NM_181657.1	1747	ctcaactagtgtaggttcaatct	111360	-	see also 30482 line
30484	LTB4R	NM_181657.1	1744	ccctcaactagtgttaggttca	111359	-	see also 30482 line
30485	NOX4	NM_016931.2	264	ctgcacaaagagagggttaaacca	111364	-	see also 13319 line
30486	NOX4	NM_016931.2	1533	ggcattggagtaactcatttgc	111382	-	see also 13319 line
30487	SLC22A4	NM_003059.2	1346	ccctgccagggcgttatataccta	111402	-	see also 13320 line
30488	SLC22A4	NM_003059.2	1167	gactcgaataatgccataatga	111396	-	see also 13320 line
30489	ABT1	NM_013375.2	568	gcgtgagaccgacttctatcttc	111415	-	see also 5413 line
30490	AIP	NM_003977.1	151	gggattccaaaaacgtgtgtatata	111421	-	see also 13322 line
30491	AIP	NM_003977.1	140	tcgggagagcgggatacacaata	111417	-	see also 13322 line
30492	BRDT	NM_001726.1	1696	ttggcgagtaggttcacataata	111472	-	see also 13323 line
30493	BRDT	NM_001726.1	1432	aagtaaccttcctgaagctaaat	111464	-	see also 13323 line
30494	CRSP2	NM_004229.2	405	ttcgttgattattagcttagt	111521	-	see also 13324 line
30495	CRSP2	NM_004229.2	525	ctggcctctgttagctagagatgc	111528	-	see also 13324 line
30496	CRSP7	NM_004831.2	1196	ctggagacatacaggttaacttg	111677	-	see also 13325 line
30497	CRSP7	NM_004831.2	1721	atgactggagcgcagtgcatatcg	111681	-	see also 13325 line
30498	CRSP8	NM_004269.2	24	tggcggagcgtgataaatgtcagt	111682	-	see also 13326 line
30499	CRSP8	NM_004269.2	644	ttcattgatagaacaatagtaaa	111697	-	see also 13326 line
30500	CRSP9	NM_004270.3	412	tacacgtgcatcatcttataat	111717	-	see also 13327 line
30501	CRSP9	NM_004270.3	722	tgccttggtgtcctaattgatg	111726	-	see also 13327 line
30502	DTX1	NM_004416.1	851	cgcataagacgactcagataggg	111730	-	see also 13328 line
30503	DTX1	NM_004416.1	1455	ctccgggtgaagaactgaatgg	111731	-	see also 13328 line
30504	GN5L2	NM_021078.1	1619	cgcgcatacctaaaggatatact	111742	-	see also 13329 line

866

図46 (続き)

30505	GCN5L2	NM_021078.1	780	gaagatgttcgagctcacaaga	111737	-	see also 13329 line
30506	GCN5L2	NM_021078.1	981	aagcttctcaggtccatttca	111740	-	see also 13329 line
30507	GTF2A1	NM_015859.1	1202	agcttcattgtcttacaagttg	111770	-	see also 13330 line
30508	GTF2A1	NM_015859.1	1338	gagccctcaatagtgaagatga	111772	-	see also 13330 line
30509	HCF-2	NM_013320.1	163	gtctacaacacgctcacaatca	111781	-	see also 13331 line
30510	HCF-2	NM_013320.1	975	tgcattcgcgcactcgtattgatt	111808	-	see also 13331 line
30511	HSGT1	NM_007265.1	1922	ccagactaccgatacaaatca	111894	-	see also 5063 line
30512	HSGT1	NM_007265.1	1926	gactaccgatacaaatcagatg	111896	-	see also 5063 line
30513	HTATIP2	NM_006410.3	277	caotttcgagcaggaagcttata	111909	-	see also 4496 line
30514	HTATIP2	NM_006410.3	278	acctcagcaggaagcttataa	111910	-	see also 4496 line
30515	MYCBP	NM_012333.2	235	gcctagaactggcgaatgaaa	111923	-	see also 5294 line
30516	MYCBP	NM_012333.2	157	aaactaacagtgcttggatttt	111922	-	see also 5294 line
30517	NCOA1	NM_003743.3	1751	ctccgtggcatgacaagtagt	111971	-	see also 2559 line
30518	NCOA1	NM_003743.3	1342	atgcaattcccgagtaaatcc	111957	-	see also 2559 line
30519	NCOA2	NM_006540.1	595	cagtatctaaaggtataccaaga	112050	-	see also 4581 line
30520	NCOA2	NM_006540.1	735	gagcgggaacagccatccttca	112054	-	see also 4581 line
30521	NCOA3	NM_006534.2	948	gttgccacgcgcgcattactaca	112152	-	see also 4567 line
30522	NCOA3	NM_006534.2	591	atogagcaggaaacattgtattt	112145	-	see also 4567 line
30523	NCOA4	NM_005437.1	419	ctcgttattggcgcagttcaatt	112246	-	see also 3791 line
30524	NCOA4	NM_005437.1	636	tttgatggctcattgatttcagc	112256	-	see also 3791 line
30525	NRIP1	NM_003489.1	2269	aaccgatagctattgattaga	112315	-	see also 13337 line
30526	NRIP1	NM_003489.1	1248	atgcaagccatcttaattgcca	112289	-	see also 13337 line
30527	PCBD	NM_000281.1	297	gcagcttcatogaaacagtagc	112355	-	see also 245 line
30528	PCBD	NM_000281.1	271	gccttcagaaaggacataaac	112353	-	see also 245 line
30529	PMF1	NM_007221.1	246	gacatctatccggagggaaatct	112360	-	see also 13339 line
30530	PMF1	NM_007221.1	148	ggcagctacacagagtaactga	112358	-	see also 13339 line
30531	POU2AF1	NM_006235.1	829	gaacacttacaccgagtagtgc	112362	transcription_regulat	or
30532	POU2AF1	NM_006235.1	871	ccctactcagctgacatgtatg	112363	activator	leukemia(白血病)
30533	POU2AF1	NM_006235.1	872	ccctactcagctgacatgtatg	112364	-	see also 30531 line
30534	RNF14	NM_004290.3	334	gccttgccaggtatttaccgatg	112367	-	see also 2874 line
30535	RNF14	NM_004290.3	333	ggccctggcgaagtatttaccgatg	112366	-	see also 2874 line
30536	RNF14	NM_004290.3	1388	aagcggatgagcttaataaaga	112387	-	see also 2874 line
30537	SMARCD2	NM_003077.2	826	agcgaagcttcggatctacatt	112397	-	see also 2072 line
30538	SMARCD3	NM_003078.2	1185	gacggcgtctatgacattgaag	112414	-	see also 2074 line
30539	SMARCD3	NM_003078.2	583	aagcggaaagctgcgcacttat	112407	-	see also 2074 line
30540	SNW1	NM_012245.2	172	ggctgatacctcgtctattaga	112421	-	see also 13343 line
30541	SNW1	NM_012245.2	28	atggcgtcaccagccttttacc	112418	-	see also 13343 line
30542	TAF7	NM_005642.2	1131	atctggaaccacggatattactct	112458	-	see also 3915 line
30543	TAF7	NM_005642.2	1271	tagtactcgtgggaaataattg	112460	-	see also 3915 line
30544	TAZ	NM_015472.3	1374	cccccttctcaatgatgataggt	112485	-	see also 13345 line
30545	TAZ	NM_015472.3	875	caocccgagcgtctcagtagtg	112478	-	see also 13345 line
30546	TCERG1	NM_006706.2	2979	atcctcagatgattaaattctcc	112552	-	see also 4731 line
30547	TCERG1	NM_006706.2	2782	tctaggacccttcgaaagatc	112545	-	see also 4731 line

867

図46 (続き)

30548	TGFB11	NM_015927.3	532	gacttcgcgttcaaacctat	112567	-	see also 13347 line
30549	TGFB11	NM_015927.3	528	ctctgacttcgcgttcaaac	112566	-	see also 13347 line
30550	TNRC11	NM_005120.1	5717	accgtctgtgcgttaccatg	112653	-	see also 3592 line
30551	TNRC11	NM_005120.1	1451	aagttcgtgtgttcttggataa	112584	-	see also 3592 line
30552	TRAP95	NM_005481.2	1912	caccgagctgcacatgacagg	112683	-	see also 13349 line
30553	TRAP95	NM_005481.2	1158	tttcaaatggcggatctatcg	112680	-	see also 13349 line
30554	TRAP95	NM_005481.2	859	gtcgcgcgtgcagttctacaagg	112676	-	see also 13349 line
30555	TRIM32	NM_012210.2	592	aactgtctcgggaacttatgg	112698	-	see also 13350 line
30556	TRIM32	NM_012210.2	1298	gaccgtgtgaactcgtgtatata	112710	-	see also 13350 line
30557	TRIM32	NM_012210.2	1303	tggttaactcgtgtatatacagtt	112712	-	see also 13350 line
30558	TRIP11	NM_004239.1	1621	tgctgtatcgaagtttttagaaaa	112757	-	see also 13351 line
30559	TRIP11	NM_004239.1	5100	gagagattggtatcatcttttt	112827	-	see also 13351 line
30560	TRIP11	NM_004239.1	1111	gacgacatcggagaagaataagt	112746	-	see also 13351 line
30561	TRIP4	NM_016213.2	993	gacacgctctcgactctcttaag	112873	-	see also 6724 line
30562	TRIP4	NM_016213.2	137	atcattgaagtcagttttgtaaat	112856	-	see also 6724 line
30563	UTF1	NM_003577.1	361	cgccgctacaagttccttaaaga	112893	-	see also 13353 line
30564	VGLL1	NM_016287.2	788	tcccgctcagttcactataaga	112905	-	see also 13354 line
30565	VGLL1	NM_016287.2	281	cagcagcgtagtgatgaacact	112895	-	see also 13354 line
30566	GALR	NM_004343.2	1099	acgagacgtggggcgtacaaga	112928	-	see also 13355 line
30567	CALR	NM_004343.2	276	caggatgcacgcgttttatgctct	112917	-	see also 13355 line
30568	CREG	NM_003851.1	530	ttgcaaacattcgtttattcatt	112933	-	see also 13356 line
30569	CREG	NM_003851.1	554	gacacactgagatgaacacctgg	112935	-	see also 13356 line
30570	HD	NM_002111.4	8600	atgcgccactcgtcgtgaacattca	113102	-	see also 13357 line
30571	HD	NM_002111.4	5088	tcgcgcgttagacatgctttta	113041	-	see also 13357 line
30572	HSBP1	NM_001537.1	263	tactgcacacgcaaaagagtga	113120	-	transcription_regulat repressor
30573	ID3	NM_002167.2	690	ttgtcatctccacgacaaaagg	113121	-	transcription_regulat repressor
30574	L3MBTL2	NM_031488.3	1604	ggcgtccatcgagagacttttaa	113139	-	see also 9039 line
30575	L3MBTL2	NM_031488.3	2090	tcgcgcgacaaggcttcaagtcc	113144	-	see also 9039 line
30576	L3MBTL2	NM_031488.3	1608	ctccatcgagactctttaaactg	113141	-	see also 9039 line
30577	NAB2	NM_005967.1	1209	cccagagagacacctactgttc	113154	-	see also 13359 line
30578	NAB2	NM_005967.1	982	acggagcgttggcacatctttg	113150	-	see also 13359 line
30579	PAWR	NM_002583.1	979	tagaagtgggttccttagatata	113160	-	see also 13360 line
30580	PAWR	NM_002583.1	982	aagtgggttccttagatataaca	113161	-	see also 13360 line
30581	PBXIP1	NM_020524.2	1907	ctctcgtctaagaacataacttgg	113172	-	see also 7886 line
30582	PBXIP1	NM_020524.2	2016	cgcctccgcttcaggatttatt	113173	-	see also 7886 line
30583	PLRG1	NM_002689.1	1223	atcttccggttcatactatt	113219	-	see also 1745 line
30584	PLRG1	NM_002689.1	136	atcaagcttcgtatgagtgg	113183	-	see also 1745 line
							apoptosis, transcription_regulat
30585	RAI	NM_006663.1	1120	ccctaccacacagaacagtagcc	113228	-	or
30586	RAI	NM_006663.1	1756	ggcagacgtccagcagagtaggg	113229	-	see also 30585 line
30587	RAI	NM_006663.1	1977	agcctaaaggaggaagagtagg	113230	-	see also 30585 line

868

図46 (続き)

30588	RNF12	NM_016120.2	1996	tgcacgtgcgtggttatctga	113284	-	see also 6674 line
30589	RNF12	NM_016120.2	743	accacgacgtcgaatcaacatct	113246	-	see also 6674 line
30590	RNF12	NM_016120.2	1290	aggaggttttagcgctacatttt	113262	-	see also 6674 line
30591	RYBP	NM_012234.3	474	aaggaaattagctcgtgtttac	113291	-	see also 13364 line
30592	RYBP	NM_012234.3	210	agcccgaccaggccaaaagaca	113288	-	see also 13364 line
30593	SAP18	NM_005870.3	424	gacctgcagctgcagaaagttcc	113304	-	see also 4085 line
30594	SAP18	NM_005870.3	504	caggggcctagagaccatttaa	113305	-	see also 4085 line
30595	SAP30	NM_003864.1	790	tgcacatttagcttattccagt	113315	-	see also 13366 line
30596	SAP30	NM_003864.1	553	agcgcaagcattctttacatag	113307	-	see also 13366 line
30597	SIH2	NM_005067.4	1208	cagcgactgcctgttttcgaca	113322	-	see also 3535 line
30598	SIH2	NM_005067.4	895	tgcacgcccacaaagagcattacc	113318	-	see also 3535 line
30599	SUFU	NM_016169.2	1312	tctgcacgacggcactttaca	113337	-	see also 13368 line
30600	SUFU	NM_016169.2	1446	ctgttgaccgaagagttgtaga	113346	-	see also 13368 line
30601	TTRAP	NM_016614.2	718	agggcatgctgcggaaacgaatga	113363	-	see also 6951 line
30602	TTRAP	NM_016614.2	727	tgcggaacgaatgaatcagttaa	113366	-	see also 6951 line
30603	TZFP	NM_014383.1	281	tccggcagcactctgtgatact	113380	-	see also 13370 line
30604	TZFP	NM_014383.1	1090	aggatccactctccctaaatgc	113387	-	see also 13370 line
30605	YAF2	NM_005748.2	375	tggagatctgacagtcattttaa	113390	-	see also 13371 line
30606	YAF2	NM_005748.2	221	tgcctctcacacagctcaagaaaa	113388	-	see also 13371 line
30607	ZFPM2	NM_012082.2	1661	agggggctactgtttgtgtgt	113421	-	see also 5112 line
30608	ZFPM2	NM_012082.2	1050	cactgtgattccgtgatacaact	113410	-	see also 5112 line
30609	NMI	NM_004688.1	559	ctcgaaagttccttatgagatac	113481	-	see also 13373 line
30610	NMI	NM_004688.1	556	gagctgaaagtctccttatgaga	113480	-	see also 13373 line
30611	PCAF	NM_003884.3	1197	ttcctaaaccgactcaactatgt	113513	-	see also 13374 line
30612	PCAF	NM_003884.3	2525	ttaggttgacagagctcctctatag	113555	-	see also 13374 line
30613	PIR	NM_003662.1	567	ggcctacaactgtgggttaattt	113572	-	see also 13375 line
30614	PIR	NM_003662.1	317	cagaccgaggttaaaaaatctgg	113565	-	see also 13375 line
30615	PIR	NM_003662.1	645	atccctaaaccagtaeaggatgg	113576	-	see also 13375 line
30616	HDAC11	NM_024827.1	249	caagaggcgtatcttaataagc	113584	-	see also 13376 line
30617	HDAC11	NM_024827.1	245	tgcacacgagggcgtctatctaat	113582	-	see also 13376 line
30618	HDAC3	NM_003883.2	1277	gaggccccaatagagttctatga	113634	-	see also 2640 line
30619	HDAC3	NM_003883.2	847	tcgattggcgtgctttaacctca	113616	-	see also 2640 line
30620	HDAC4	NM_006037.2	1449	cggagtgctgacctcctataaacc	113640	-	see also 13378 line
30621	HDAC4	NM_006037.2	3739	gagcctcggaaagcatgttttc	113643	-	see also 13378 line
30622	HDAC5	NM_005474.3	1221	ggcgtgctgctcgtgtgtaacagc	113652	-	see also 3811 line
30623	HDAC5	NM_005474.3	3045	caeggctgggggtacaaatgtgaac	113659	-	see also 3811 line
30624	HDAC7A	NM_015401.1	2176	ctgtgagctaaagaatgggttc	113673	-	see also 13380 line
30625	HDAC7A	NM_015401.1	2171	ggcttctcgtgagctaaagaatg	113672	-	see also 13380 line
30626	HDAC7A	NM_015401.1	1361	aactcacgtccagggtgatcaaga	113665	-	see also 13380 line
30627	HDAC8	NM_018486.1	531	acgattggacgggaatttgagc	113697	-	see also 13381 line
30628	HDAC8	NM_018486.1	85	gtccctgttatctatagctcc	113686	-	see also 13381 line
30629	HDAC9	NM_014707.1	1066	cagcaacgcatcttaattatga	113738	-	see also 5898 line
30630	HDAC9	NM_014707.1	906	ttcattcaagaagcgaatgttg	113731	-	see also 5898 line
30631	MYBBP1A	NM_014520.1	240	atgcctcgaagcgtctaatcaacg	113787	-	see also 13383 line

図46 (続き)

869

30632	MYBBP1A	NM_014520.1	720	tggtgggacgcgtgaacactattc	113795	-	see also 13383 line
30633	NFKBIA	NM_020529.1	641	ggcacacgtgtctacactagc	113811	-	see also 13384 line
30634	NFKBIA	NM_020529.1	510	tcgagacttcgaggaaatacc	113810	-	see also 13384 line
30635	NFKBIA	NM_020529.1	905	gcgtgacactagaacactcca	113817	-	see also 13384 line
30636	NFKB1	NM_015435.3	1434	gtgggaatcgcttaatactg	113850	-	see also 6415 line
30637	RNF19	NM_015435.3	1141	taogtttgagaactatacttct	113841	-	see also 6415 line
30638	RNF19	NM_015435.3	783	gtgattgcttaagacaatttt	113825	-	see also 6415 line
30639	VHL	NM_000551.2	820	caggagcgcctgacatcaacg	113900	-	see also 13386 line
30640	VHL	NM_000551.2	715	agcctagttaagcctggaatta	113897	-	see also 13386 line
30641	GSN	NM_000177.3	285	ccgtgcccacacactttatgg	113906	-	see also 151 line
30642	GSN	NM_000177.3	738	aacagcaatcggtatgaagact	113909	-	see also 151 line
30643	CAPG	NM_001747.1	790	ggcgcgaagctctgtataagctt	113927	-	see also 13388 line
30644	CAPG	NM_001747.1	939	aggggcgaagcgaatgagaag	113931	-	see also 13388 line
30645	CAPPA3	NM_033328.2	392	gggcgactaccgatttttgacc	113940	-	see also 9406 line
30646	CAPPA3	NM_033328.2	811	aagctcaactggtctaaagttt	113960	-	see also 9406 line
30647	CAPPA3	NM_033328.2	522	ctgtgcgcctaaactgtatgt	113944	-	see also 9406 line
30648	CAPZA1	NM_006135.1	562	gtgttgctgctgcttaagattca	113992	-	see also 13390 line
30649	CAPZA1	NM_006135.1	103	gacgtgcgctactacttaataa	113978	-	see also 13390 line
30650	CAPZA2	NM_006136.1	762	gacaatgtcggaactacttcca	114011	-	see also 13391 line
30651	CAPZA2	NM_006136.1	804	ggcagttacacacactaagattg	114013	-	see also 13391 line
30652	CAPZA2	NM_006136.1	55	aagtgctgtatgacgacaaatt	114002	-	see also 13391 line
30653	CAPZB	NM_004930.1	483	cggtcgacccgccattacaagt	114029	-	see also 3429 line
30654	CAPZB	NM_004930.1	675	aagtaogctgaacgagatctact	114030	-	see also 3429 line
30655	EVL	NM_016337.1	1105	ggcaagagcccggaagctaaaga	114042	-	see also 13393 line
30656	EVL	NM_016337.1	208	cagagctgttgagtaagttgc	114034	-	see also 13393 line
30657	HRIHFB21	NM_007032.3	400	taogcgggtcagcgcaactatgg	114047	-	see also 4921 line
30658	HRIHFB21	NM_007032.3	433	cacaccaagatgctgtctctatc	114048	-	see also 4921 line
30659	ARP3BET	NM_020445.1	235	atcgataaacctacatctctac	114059	-	see also 13395 line
30660	ARP3BET	NM_020445.1	231	agccatcgataaacctctcatatg	114058	-	see also 13395 line
30661	FLNA	NM_001456.1	4967	aaccatgacggcagcgtatacagt	114101	-	see also 13396 line
30662	FLNA	NM_001456.1	4104	accgtggcgtgagcatgtacaaa	114091	-	see also 13396 line
30663	FLNA	NM_001456.1	824	ggcagcaagcccggttaacaaatgc	114065	-	see also 13396 line
30664	FSCN3	NM_020369.1	1459	cccgaccgcattcatctactacc	114131	-	see also 7853 line
30665	FSCN3	NM_020369.1	1479	accctgcgcaccgggtatctacc	114132	-	see also 7853 line
30666	MACF1	NM_012090.3	15894	ggcagagcagagtagaactaac	114462	-	see also 13398 line
30667	MACF1	NM_012090.3	9394	ctgcgggttcgagagatgttct	114314	-	see also 13398 line
30668	MARCKS	NM_002356.4	807	cagcaacagagaccccgaaaaaa	114618	-	calmodulin binding -
30669	PLS1	NM_002670.1	1878	tcgggtcccggtatatgcatca	114668	-	see also 13399 line
30670	PLS1	NM_002670.1	1908	acctgtagaagtgaacacaaag	114671	-	see also 13399 line
30671	SPTA1	NM_003126.1	277	gtgtgactcggttatcaagttt	114677	-	see also 2099 line
30672	SPTA1	NM_003126.1	6803	agcgcgatgaagcgctcaaaccc	114802	-	see also 2099 line
30673	AVIL	NM_006576.2	706	cccttggcgcagcgtccattatc	114833	-	see also 13401 line

870

図46 (続き)

30674	AVIL	NM_006576.2	709	ttggccgagcctcattataag	114834	-	see also 13401 line
30675	CFL1	NM_005507.1	298	goccttatgatcaacctatga	114863	-	see also 13402 line
30676	CFL1	NM_005507.1	438	aggatcaagcatgaattgaag	114864	-	see also 13402 line
30677	SDCBP	NM_005625.1	259	tactatccctoaagatggaatc	114865	-	syndecan binding melanoma(メラノーマ)
30678	ACTN4	NM_004924.3	593	ccgctataagaacgtcaatg	114870	-	see also 3427 line
30679	ACTN4	NM_004924.3	332	atcagggggcggtgactcaagc	114866	-	see also 3427 line
30680	ACTN4	NM_004924.3	2737	cagggtccctcagactacaagtcc	114881	-	see also 3427 line
30681	EPB49	NM_001978.1	1289	tgcacacagggagcgtctaaatc	114893	-	see also 13404 line
30682	EPB49	NM_001978.1	1288	ttgcaccagggagcgtctaaatc	114892	-	see also 13404 line
30683	FSCN1	NM_003088.1	1006	gaccggagacccaaaagtgtgc	114897	-	see also 13405 line
30684	FSCN1	NM_003088.1	1004	tcgaccgcgacacaaaagtgt	114896	-	see also 13405 line
30685	FSCN2	NM_012418.1	1217	ctggggctatcagcgtttgt	114910	-	see also 13406 line
30686	FSCN2	NM_012418.1	1219	ggcggtatcagcgtttgtgc	114911	-	see also 13406 line
30687	FSCN2	NM_012418.1	1185	ggcgctacgtgtgcatgaagaag	114908	-	see also 13406 line
30688	VIL1	NM_007127.1	2266	cccaagtggaaggttcaatgc	114930	-	see also 4958 line
30689	VIL1	NM_007127.1	2270	aagtgaaggttcaatgctaac	114931	-	see also 4958 line
30690	DSTN	NM_006870.2	245	ggatgtttgtgttaaccataact	114935	-	see also 13408 line
30691	DSTN	NM_006870.2	119	atgacatgaaggttcgtaaatgc	114933	-	see also 13408 line
30692	WASF1	NM_003931.1	451	aagaaogtgtggaocggtttat	114946	-	see also 2692 line
30693	WASF1	NM_003931.1	459	gtggaccgtttatctgttgtgt	114949	-	see also 2692 line
30694	WASF3	NM_006646.3	905	tcggagcttagggattactctta	114991	-	see also 13410 line
30695	WASF3	NM_006646.3	1167	tcacagcgagataattggtat	114995	-	see also 13410 line
30696	ABLM1	NM_002313.4	1097	atccgactgtgaocaatctacg	115036	-	see also 1485 line
30697	ABLM1	NM_002313.4	2106	taccgacttcgctcagataaaca	115069	-	see also 1485 line
30698	ABLM1	NM_002313.4	1202	caggtcactatctatgcaaaa	115042	-	see also 1485 line
30699	ABLM2	NM_032432.2	1001	gtctccgagcgtgtgatttatg	115086	-	see also 13412 line
30700	ABLM2	NM_032432.2	818	cccttcctcgcgctatgtgca	115082	-	see also 13412 line
30701	ABLM2	NM_032432.2	313	tgccgagcggcggtacatctgc	115075	-	see also 13412 line
30702	ACTN1	NM_001102.2	198	ttctcagcaaacacacagattaca	115090	-	see also 13413 line
30703	ACTN1	NM_001102.2	1919	tcacagcctaccacgtcaatg	115103	-	see also 13413 line
30704	ACTN1	NM_001102.2	870	aactgcccgcagcgatgagaaag	115098	-	see also 13413 line
30705	ACTN2	NM_001103.1	447	atcggtttccacaaaattgctaa	115108	-	see also 13414 line
30706	ACTN2	NM_001103.1	2809	tggattacgtcgtctctcttc	115143	-	see also 13414 line
30707	ACTN3	NM_001104.1	1321	gactacgattcgggttctgctaca	115148	-	see also 13415 line
30708	ACTN3	NM_001104.1	320	tcacaaaatcccaacgttaac	115146	-	see also 13415 line
30709	ADD1	NM_001119.3	1326	ctcatcgagatcgtcgtataatc	115182	-	see also 707 line
30710	ADD2	NM_001617.1	507	cccgaggggagcagccttacttg	115195	-	see also 13417 line
30711	ANLN	NM_018685.2	1182	aacggggggtatcgaaaccaattg	115240	-	see also 7555 line
30712	ANLN	NM_018685.2	1177	ctgaataacgggggtatcgaaacc	115239	-	see also 7555 line
30713	ARPC1A	NM_006409.2	991	ttcgtctcgaagttagatttc	115315	-	see also 4495 line
30714	ARPC1A	NM_006409.2	988	acctcgtctcgaagttagat	115314	-	see also 4495 line
30715	ARPC1A	NM_006409.2	233	atcacgaagtgcacatctataag	115308	-	see also 4495 line
30716	BCL7B	NM_001707.2	234	gacacgtccctcaggaatttaa	115324	-	see also 13419 line
30717	BCL7B	NM_001707.2	401	ttcgtgtgtgacgtctatcagc	115327	-	see also 13419 line

871

図46 (続き)

30718	BPAG1	NM_001723.3	2557	accctacgatacagagcttaagt	115398	-	see also 1145 line
30719	C6orf209	NM_018368.2	147	tggatcgcgctggtgcatattc	116007	-	see also 13421 line
30720	C6orf209	NM_018368.2	160	gtgcatacttggcctcttactac	116008	-	see also 13421 line
30721	CALD1	NM_004342.4	590	ttgcaccacaataaagagatgc	116075	-	see also 13423 line
30722	CALD1	NM_004342.4	1584	aaggtgtacgacaacataaaggt	116094	-	see also 13423 line
30723	CEACAM1	NM_001712.2	1303	atgctgaacgtaaacataatagc	116109	-	see also 13424 line
30724	CEACAM1	NM_001712.2	1238	aggatctggagacgfatattggt	116107	-	see also 13424 line
30725	CEACAM5	NM_004363.1	2092	ttggctactggcgcgaataattc	116130	-	see also 13425 line
30726	CEACAM5	NM_004363.1	1984	cagtattcttggcgtatataatgg	116125	-	see also 13425 line
30727	CFL2	NM_021914.5	264	ttctgttaagcgatgacaaaag	116138	-	see also 8196 line
30728	CFL2	NM_021914.5	406	acgatgccacatacgaacaaaa	116142	-	see also 8196 line
30729	CFL2	NM_021914.5	410	tgccacatacgaacaaaagagt	116143	-	see also 8196 line
30730	CGN	NM_020770.1	3362	ctgcagtacacaatcgaaact	116174	-	see also 13427 line
30731	CGN	NM_020770.1	1234	gggtgagctfaccgcgaagaatgg	116162	-	see also 13427 line
30732	CLMN	NM_024734.2	328	atcctcgtcgcatcgatattttc	116184	-	see also 13428 line
30733	CLMN	NM_024734.2	329	tctcgtcgcatcgatattttcg	116185	-	see also 13428 line
30734	CNN1	NM_001299.3	292	gcgctcgcatcgccgaacaacttc	116242	-	see also 13429 line
30735	CNN1	NM_001299.3	344	ttgcgaattcaataatagctgc	116246	-	see also 13429 line
30736	CNN2	NM_004368.1	187	ctgaaggatggaactatcttatg	116254	-	see also 13430 line
30737	CNN2	NM_004368.1	446	tggacattggcgtcaagtaactog	116255	-	see also 13430 line
30738	CNN3	NM_001839.1	959	tgcgaatacgaatgagatgatt	116272	-	see also 13431 line
30739	CNN3	NM_001839.1	793	cggtggacaactcgacaatttc	116268	-	see also 13431 line
30740	CORO1A	NM_007074.1	364	ctggctgcgcgcacaaatgacaacg	116283	-	see also 13432 line
30741	CORO1A	NM_007074.1	158	aagccgcgaacgctgctatgaaga	116280	-	see also 13432 line
30742	CORO1B	NM_020441.1	334	tctcacaacgacgaagctcatag	116286	-	see also 13433 line
30743	CORO1C	NM_014325.2	355	gactggtccacataacgatca	116298	-	see also 5620 line
30744	CORO1C	NM_014325.2	283	ctgcacaagactggctcgaattga	116294	-	see also 5620 line
30745	CORO2A	NM_003389.2	1196	gactgagtaccgcgtcctataacc	116334	-	see also 13435 line
30746	CORO2A	NM_003389.2	867	gaccgcaagattcgggtattga	116332	-	see also 13435 line
30747	CORO2A	NM_003389.2	1666	atggtttgacgttttcgaatgc	116339	-	see also 13435 line
30748	CORO2B	NM_006091.1	1179	ggatccctgctgctgattgttttg	116349	-	see also 13436 line
30749	CORO2B	NM_006091.1	790	gccctgctgacgaagagaaattg	116346	-	see also 13436 line
30750	COTL1	NM_021149.2	216	gcgctcactgggtgacttttaa	116355	-	see also 13437 line
30751	COTL1	NM_021149.2	217	ccgtcatctgggtgacttttaaa	116356	-	see also 13437 line
30752	DAAM1	NM_014992.1	146	tggacgagattttcatcatct	116362	-	see also 13438 line
30753	DAAM1	NM_014992.1	203	cacgtatcggctgcggaatgata	116365	-	see also 13438 line
30754	DAAM2	NM_015345.2	520	cagagtctgacgcggtttgatga	116442	-	see also 13439 line
30755	DAAM2	NM_015345.2	3361	cgggcaataaacccggctaattta	116481	-	see also 13439 line
30756	DBN1	NM_004395.2	2017	ctccagagatgacatacacatgc	116493	-	see also 13440 line
30757	DBN1	NM_004395.2	365	agctgctotgcacaataacgtgc	116484	-	see also 13440 line
30758	DIAPH1	NM_005219.2	609	gagactgctggaggttacgatag	116499	-	see also 13441 line
30759	DIAPH1	NM_005219.2	1251	ctcttggctcgaatgacatga	116510	-	see also 13441 line
30760	DIAPH2	NM_006729.2	929	tccggtcagctgggttaacaact	116581	-	see also 4745 line
30761	DIAPH2	NM_006729.2	853	atgaattacgacgggtatatca	116576	-	see also 4745 line

872

図46 (続き)

30762	DMD	NM_000109.2	10429	gagaatttgcacaggtactaaaa	116898	-	see also 70 line
30763	DMD	NM_000109.2	9599	gtcttagctgacctgaataatg	116881	-	see also 70 line
30764	DNASE1	NM_005223.2	1552	gocgagatcgacgctctctatga	116925	-	see also 13444 line
30765	DNASE1	NM_005223.2	1185	caccctctcagctacattatg	116919	-	see also 13444 line
30766	ENG1	NM_003633.1	883	accaagctgtcgaactatctg	116938	-	see also 2451 line
30767	EPB41	NM_004437.1	1762	ttcagcgtcacagaagtaaacg	116996	-	see also 13446 line
30768	EPB41	NM_004437.1	1670	ttcttcgctagatccaaattt	116993	-	see also 13446 line
30769	EPB41L1	NM_012156.2	2330	gagcttcgctatggataacacc	117027	-	see also 5152 line
30770	EPB41L2	NM_001431.1	1343	cagactcgaatcaatctgttttg	117054	-	see also 1000 line
30771	EPB41L2	NM_001431.1	1348	tgcgaatcaatcgttttcttg	117056	-	see also 1000 line
30772	EPB41L3	NM_012307.2	1195	atcgagctgcgaagcgtttatgg	117132	-	see also 5269 line
30773	EPB41L3	NM_012307.2	2328	gacactgcgctaacgaatgaatg	117155	-	see also 5269 line
30774	FHOD1	NM_013241.1	2858	acgcgctgtctgcaatagtttc	117180	-	see also 13450 line
30775	FHOD1	NM_013241.1	2855	tgcacgcgctgtctgcaatagg	117179	-	see also 13450 line
30776	FLJ1	NM_002018.2	1206	tgcgctgagtggtacaacatcg	117193	-	see also 13451 line
30777	FLJ1	NM_002018.2	2362	gacacgcgctgtgtacattct	117201	-	see also 13451 line
30778	FLNB	NM_001457.1	6867	gggtcgtgcggtgtctcttat	117330	-	see also 13452 line
30779	FLNB	NM_001457.1	6834	aagccgagattacattcgtatga	117326	-	see also 13452 line
30780	FMNL1	NM_005892.3	898	gcctacgcgccatcatgaactac	117346	-	see also 13453 line
30781	FMNL1	NM_005892.3	2119	tccgaatgccactcttgaactgg	117351	-	see also 13453 line
30782	FXYD5	NM_014164.3	651	ccgggttatccggaatcgttgc	117371	-	see also 13454 line
30783	FXYD5	NM_014164.3	235	ttcagcagactcaactatcatgg	117368	-	see also 13454 line
30784	GC	NM_000583.2	1311	tgttaaggccctctactaaaga	117401	-	see also 13455 line
30785	GC	NM_000583.2	1175	aagtcattgataagatacatatt	117395	-	see also 13455 line
30786	GMFB	NM_004124.2	290	gacaaactcgtctcatttgttat	117415	-	see also 13456 line
30787	GMFB	NM_004124.2	440	cagctgaactaaccaaggtattt	117421	-	see also 13456 line
30788	GMFG	NM_004877.1	308	atgatgtatcgaggaggtaaaaa	117427	-	see also 13457 line
30789	GMFG	NM_004877.1	71	ttccgaaagagacagacaaatgc	117424	-	see also 13457 line
30790	HDAC6	NM_006044.2	823	atccggagggtccttatcgtaga	117444	-	see also 13458 line
30791	HDAC6	NM_006044.2	176	gtgtoacttgaagcgaatatt	117428	-	see also 13458 line
30792	HIP-55	NM_014063.4	785	ccgtgaccccgaggagattttc	117484	-	-
30793	HIP-55	NM_014063.4	518	atgcgctgtcgtgagattaaaagg	117483	-	see also 30792 line
30794	HIP-55	NM_014063.4	514	accaatgcgctgtctgagattaa	117482	-	see also 30792 line
30795	HIP1	NM_005338.4	566	aagtgcgtgacaaacttttcc	117487	-	see also 3727 line
30796	HIP1	NM_005338.4	2426	aactgcacagccagaatagagg	117502	-	see also 3727 line
30797	IPCAL1	NM_002149.2	814	agccacagacagaatcttcagg	117510	-	-
30798	IPP	NM_005897.1	1707	ttgagctcagtgaaattttaa	117511	-	see also 13460 line
30799	IQGAP2	NM_006633.1	2356	cacaggcggcaacgcttcattga	117581	-	see also 13461 line
30800	IQGAP2	NM_006633.1	2360	ggcggcaaacggttattgataat	117584	-	see also 13461 line
30801	KIAA0843	NM_014945.1	1389	gcggagctctccatacaatgc	117677	-	see also 6134 line
30802	KLHL1	NM_020866.1	2617	ttccggctactagattatgtag	117730	-	see also 8009 line
30803	KLHL1	NM_020866.1	2618	tcccggctactaggattatgtaga	117731	-	see also 8009 line
30804	KLHL2	NM_007246.2	1092	tgcacaacagcagcgttatatta	117772	-	see also 5045 line
30805	KLHL2	NM_007246.2	560	ctgaggatgctaattgattatgt	117750	-	see also 5045 line

図46 (続き)

873

30806	KLHL3	NM_017415.1	1377	aagaccacagagtggtctttgt	117818	-	see also 13465 line
30807	KLHL3	NM_017415.1	1292	gcagagggtcctcaatgactgc	117817	-	see also 13465 line
30808	KLHL4	NM_019117.3	2116	ggagatatgacggacatacttat	117869	-	see also 7711 line
30809	KLHL4	NM_019117.3	2122	atgacgggacatactatttgaaac	117871	-	see also 7711 line
30810	KPTN	NM_007059.1	363	cagccctcttcctgaacattact	117890	-	see also 4942 line
30811	LCP1	NM_002298.2	1797	aaggaccgcgaagattagtacaag	117931	-	see also 1474 line
30812	LCP1	NM_002298.2	1550	ttgtaactacgcggtagaattgg	117923	-	see also 1474 line
30813	LSP1	NM_002339.1	719	ccttaaacgcctccatagagaag	117936	-	see also 13469 line
30814	LSP1	NM_002339.1	1072	ggcaccgggcatgggaagtatga	117939	-	see also 13469 line
30815	LSP1	NM_002339.1	1074	caccgggcatgggaagtatgaga	117940	-	see also 13469 line
30816	MEFV	NM_000243.1	2155	cccggaccgcctgctctaataag	117958	-	see also 13470 line
30817	MEFV	NM_000243.1	2154	ccccgaccgcctgctctaataaa	117957	-	see also 13470 line
30818	MEFV	NM_000243.1	2156	cccgaccgcctgctctaataaagg	117959	-	see also 13470 line
30819	MGC35136	NM_152427.1	680	gcctctgagctgctcattccattaa	117968	-	see also 13471 line
30820	MGC35136	NM_152427.1	684	ctgagctgcatccattaaagagc	117969	-	see also 13471 line
30821	MTSS1	NM_014751.2	2667	tccgaaggggcgtgaactgaag	117998	-	see also 13472 line
30822	MTSS1	NM_014751.2	1623	ttcagagactacgctcattattac	117990	-	see also 13472 line
30823	MYBPC1	NM_002465.1	2984	atcgaaaccagtgccaccattact	118089	-	see also 1581 line
30824	MYBPC1	NM_002465.1	1087	ttcgtgaagagagccctccaattat	118030	-	see also 1581 line
30825	MYBPC2	NM_004533.1	2157	gtgtcttcgcgctgaatgctata	118111	-	see also 13474 line
30826	MYBPC2	NM_004533.1	2992	ctgtactgttcggacccttatcg	118118	-	see also 13474 line
30827	MYBPC3	NM_000256.2	1787	ggccgacagccgcataaaagggtg	118135	-	see also 13475 line
30828	MYBPC3	NM_000256.2	868	gtgtgcgcggatgaagtatagc	118128	-	see also 13475 line
30829	MYRIP	NM_015460.1	1233	cccgactactggccaaacctaaag	118161	-	see also 13476 line
30830	MYRIP	NM_015460.1	1891	caggctgtactgagtgtagcaatga	118166	-	see also 13476 line
30831	NCALD	NM_032041.1	376	atcatcgcccttgagtgtaacttc	118187	-	see also 9066 line
30832	NCALD	NM_032041.1	196	ggatgccaggaatggtataaagg	118180	-	see also 9066 line
30833	NEB	NM_004543.2	15420	caagtcgcgagagtgtaacaatgt	118489	-	see also 13478 line
30834	NEB	NM_004543.2	4027	gtctgagctggagaaagtataa	118281	-	see also 13478 line
30835	NEB	NM_004543.2	3134	cagcgacgttgattataagcaca	118254	-	see also 13478 line
30836	NEBL	NM_006393.1	3098	tccgagattaccctagcttttc	118684	-	see also 13479 line
30837	NEBL	NM_006393.1	2441	cagctgagtcgggtataaataaa	118668	-	see also 13479 line
30838	NEBL	NM_006393.1	3273	accgagccatgtactattacagt	118687	-	see also 13479 line
30839	PARVA	NM_018222.2	1157	atctacatacagtggtgtataga	118700	-	see also 13480 line
30840	PARVA	NM_018222.2	1160	tacactacagtggtgtataaac	118701	-	see also 13480 line
30841	PARVB	NM_013327.2	418	ggagtgacacagtcgcgaataagg	118703	-	see also 13481 line
30842	PARVB	NM_013327.2	511	cgtgagagcgtggcctcaattca	118706	-	see also 13481 line
30843	PARVG	NM_022141.3	989	aggacgttttgatgaattttt	118720	-	see also 13482 line
30844	PARVG	NM_022141.3	981	ggctccaaaggagcgtcttgatg	118718	-	see also 13482 line
30845	PFN2	NM_002628.2	134	cagagcattagcccaatagaat	118726	-	see also 1699 line
30846	PFN2	NM_002628.2	393	aagcatatgaactgctttatg	118741	-	see also 1699 line
30847	PIP	NM_002652.1	127	aacactcggaagataataaaa	118747	-	see also 13483 line
30848	PIP	NM_002652.1	439	aaccggttttactattgaaat	118761	-	see also 13483 line
30849	PIP	NM_002652.1	302	ggctatgtgacgacaatccaaaa	118756	-	see also 13483 line

874

図46 (続き)

30850	PLEC1	NM_000445.1	1814	tgcacagtcacatgaagaattc	118773	-	see also 13484 line	
30851	PLEC1	NM_000445.1	12440	agctgtaggagcgtgtatcact	118794	-	see also 13484 line	
30852	PLS3	NM_005032.3	1326	tctccacgaacacatctctatg	118832	-	see also 3513 line	
30853	PSG3	NM_021016.1	1343	atcttcctggccttaatacatta	118851	-	defense/immunity protein	-
30854	RDX	NM_002906.2	43	atcaacgtaagagtaactacaat	118854	-	see also 13486 line	
30855	RDX	NM_002906.2	38	aaccaatcaacgaagaagtaact	118853	-	see also 13486 line	
30856	RDX	NM_002906.2	32	tgcgaacacacacacacgaaga	118852	-	see also 13486 line	
30857	SCIN	NM_033128.1	394	caaggagctgcccaacaaatttt	118875	-	see also 13487 line	
30858	SCIN	NM_033128.1	1384	tacgctgctctacaacaaactgg	118893	-	see also 13487 line	
30859	SEC24C	NM_004922.2	1291	cccgatacatcgatgtacatcc	118907	-	see also 3422 line	
30860	SEC24C	NM_004922.2	2635	agcgtcgctccgcacatcataat	118940	-	see also 3422 line	
30861	SEC24C	NM_004922.2	1290	cccgatacatcgatgtacatcc	118906	-	see also 3422 line	
30862	SMTN	NM_006932.3	515	gggaagcgtctgtagtatgagg	118958	-	see also 13489 line	
30863	SMTN	NM_006932.3	1208	ggggatcgtgtccacaagtcca	118959	-	see also 13489 line	
30864	SNTA1	NM_003098.2	784	acgtctcaccgtatttcaagaac	118974	-	see also 13490 line	
30865	SNTA1	NM_003098.2	790	caacgtatttaagaactctact	118975	-	see also 13490 line	
30866	SNTB1	NM_021021.2	1646	tgcggtttgaccatacatatga	118990	-	see also 13491 line	
30867	SNTB1	NM_021021.2	1162	tgcacatcaattcaacgttaattg	118979	-	see also 13491 line	
30868	SNTB2	NM_006750.2	1571	tccgaagccgattgtattttgt	119027	-	see also 4765 line	
30869	SNTB2	NM_006750.2	1458	tgtcacgcctaccctttgaaag	119021	-	see also 4765 line	
30870	SNTG1	NM_018967.1	1605	tgtcggaccgcgggaacacagtc	119053	-	see also 7613 line	
30871	SNTG1	NM_018967.1	989	tctcctaactccattgaatga	119042	-	see also 7613 line	
30872	SNTG2	NM_018968.1	198	ggcgggacgaaacacactattgc	119065	-	see also 13494 line	
30873	SNTG2	NM_018968.1	829	aegccggagacggaataataagg	119081	-	see also 13494 line	
30874	SORBS1	NM_006434.1	1930	ctccggatggagatatcgttga	119111	-	see also 13495 line	
30875	SORBS1	NM_006434.1	180	aacccggacaacacgaagcaaac	119082	-	see also 13495 line	
30876	SORBS1	NM_006434.1	406	gcctatccctccacaacgattgt	119087	-	see also 13495 line	
30877	SPTAN1	NM_003127.1	1800	ggcccaagctagccgattttcc	119149	-	see also 13496 line	
30878	SPTAN1	NM_003127.1	1166	caaggctcaatgattcacaagg	119139	-	see also 13496 line	
30879	SPTB	NM_000347.3	2999	gtggatcacgacacagaacaaagg	119242	-	see also 289 line	
30880	SPTB1	NM_003128.1	5509	caagatgttacaagaacgattcc	119315	-	see also 2101 line	
30881	SPTB1	NM_003128.1	2677	ggcgggaagagatcgccaattaca	119292	-	see also 2101 line	
30882	SPTB1	NM_003128.1	2454	tccgtgagagatcatttaccatc	119285	-	see also 2101 line	
30883	SPTB2	NM_006946.1	5892	ctccgggagctagtctacaaga	119389	-	see also 13499 line	
30884	SPTB2	NM_006946.1	703	tccaacgcctatcgatcaaaaca	119364	-	see also 13499 line	
30885	SPTB2	NM_006946.1	5889	gtcctccggagatctagtcatca	119388	-	see also 13499 line	
30886	SPTB4	NM_025213.1	1666	agccgaagctactactagatccc	380329	-	see also 13500 line	
30887	SPTB4	NM_025213.1	1224	agcctttacggcctatttgcacg	380325	-	see also 13500 line	
30888	SPTB5	NM_016642.1	1020	ggcagatgagcgtctcatatga	119399	-	see also 13501 line	
30889	SPTB5	NM_016642.1	6073	cgacacggagctgctgactatgc	119413	-	see also 13501 line	
30890	SVIL	NM_003174.2	1708	atgaacgtctgctatcaaatca	119436	-	see also 2155 line	
30891	SVIL	NM_003174.2	601	ccccacatggccgagcaaatga	119427	-	see also 2155 line	
30892	TAGLN	NM_003186.2	107	ggcgcgaagtgcagtcctcaaatc	119489	-	see also 13503 line	

875

図46 (続き)

30893	TAGLN	NM_003186.2	108	ccgcgaagtgcagtcacaaatcgc	119490	-	see also 13503 line
30894	TLN1	NM_006289.2	993	agcccgctctctcaagacttacg	119503	-	see also 4379 line
30895	TLN1	NM_006289.2	3702	tggccagcgcgctggtgataatg	119526	-	see also 4379 line
30896	TLN2	NM_015059.1	82	tacattgcgtgctgagcttcctgc	119566	-	see also 13505 line
30897	TLN2	NM_015059.1	3135	agcttggtgctcgcagtggaatcgc	119602	-	see also 13505 line
30898	TMOD1	NM_003275.1	552	tgcgcgaagcgaagaccaaattca	119666	-	see also 13506 line
30899	TMOD1	NM_003275.1	551	gtgcgcgcgcgaagaccaaattc	119665	-	see also 13506 line
30900	TMOD2	NM_014548.2	931	gaccttgacaagtctaaacatag	119689	-	see also 5750 line
30901	TMOD2	NM_014548.2	545	gcctctgacacccgaactctatga	119683	-	see also 5750 line
30902	TMOD2	NM_014548.2	544	tgcctctgacacccgaactctatg	119682	-	see also 5750 line
30903	TMOD3	NM_014547.3	1208	gagcagctaatgctctatacaaaa	119717	-	see also 13508 line
30904	TMOD3	NM_014547.3	1042	ctgattgagctgcttaagagataa	119712	-	see also 13508 line
30905	TMOD4	NM_013353.1	1061	atgacccgaaacaatgaactacg	119734	-	see also 5406 line
30906	TMOD4	NM_013353.1	631	gagggctcgaagcaatgacaaagg	119725	-	see also 5406 line
30907	TNNI3	NM_000363.3	212	ctccgcctcgagaaaattgcagc	119742	-	see also 13512 line
30908	TNNI3	NM_000363.3	186	ccgcagcccaagaaaaaatctaa	119740	-	see also 13512 line
30909	TPM1	NM_000366.4	913	gacggagctgtacgtcagaaact	119757	-	see also 13513 line
30910	TPM1	NM_000366.4	967	cacgctctcaacgatatgacttc	119761	-	see also 13513 line
							structural constituent of muscle
30911	TPM2	NM_003289.1	279	aggatgaggtggaaaagtattct	119762	-	-
30912	UTRN	NM_007124.1	5119	gtccgcgataagcccttatttt	119871	-	see also 13514 line
30913	UTRN	NM_007124.1	1706	gtgtgagactctgtgctattttg	119800	-	see also 13514 line
30914	UTRN	NM_007124.1	3334	gagatcgcctactcaaaaaagtag	119836	-	see also 13514 line
30915	VASP	NM_003370.1	450	atcgtccggggtgtcaagtataa	120005	-	see also 13515 line
30916	VASP	NM_003370.1	455	ccggggtgtcaagtataaacaggg	120007	-	see also 13515 line
30917	VCL	NM_003373.2	2111	gtctcggctgctgttatcttact	120054	-	see also 13516 line
30918	VCL	NM_003373.2	2113	ctcggctgctgttatcttactta	120055	-	see also 13516 line
30919	VCL	NM_003373.2	3042	agcgaatcccaaccataagcacc	120071	-	see also 13516 line
30920	VILL	NM_015873.1	564	ggcggagaggataaatcgattca	120085	-	see also 13517 line
30921	VILL	NM_015873.1	1321	tccagccacgactgttgagtgcc	120098	-	see also 13517 line
							receptor activity, signal transduction
30922	WASF2	NM_006990.1	214	gtgcaccgactacagggttaagt	120105	-	gpcr
30923	WASL	NM_003941.2	1034	tccgatattgttggaatctcaga	120122	-	see also 13518 line
30924	WASL	NM_003941.2	475	tgcagcagatcgggaactgtatgt	120108	-	see also 13518 line
30925	WASL	NM_003941.2	1650	tgcacagaggatcccaactaaa	120126	-	see also 13518 line
30926	WASPIP	NM_003387.3	264	caccaatattggcaaacactaaa	120131	-	see also 2286 line
30927	WDR1	NM_005112.3	906	gtgggatttacgcaattagtgttg	120156	-	see also 3585 line
30928	WDR1	NM_005112.3	275	ggcgacccttaaggcgaacaattt	120143	-	see also 3585 line
30929	DCX	NM_000555.2	1185	ttcgctatgctcagggatgtttt	120202	-	see also 13521 line
30930	DCX	NM_000555.2	706	gctcagggagtgctgttacattt	120190	-	see also 13521 line
30931	HOOK3	NM_032410.2	1242	aggcggcaggttaactcttaga	120229	-	see also 13522 line
30932	HOOK3	NM_032410.2	1241	aaggcggcaggttaactcttag	120228	-	see also 13522 line

876

図46 (続き)

30933	MAPRE1	NM_012325.1	65	atggcagtgaaacgtatactcaac	120264	-	see also 13523 line
30934	MAPRE1	NM_012325.1	185	ggcgctgctgttgctcagttat	120270	-	see also 13523 line
30935	MAPRE2	NM_014288.1	364	agcggcctattggccaattcattgg	120298	-	see also 5573 line
30936	MAPRE2	NM_014288.1	494	atgaacgttgataaagtaattcc	120302	-	see also 5573 line
30937	MAPRE3	NM_012326.2	238	caactcaactatataccaagataga	120311	-	see also 5278 line
30938	MAPRE3	NM_012326.2	815	aggaacgtgacttctactcagc	120315	-	see also 5278 line
30939	TUBGCP5	NM_052903.1	1590	caagttatatagcgtatcagaaa	120352	-	see also 13525 line
30940	TUBGCP5	NM_052903.1	2476	cccggtggacattgtataagttt	120376	-	see also 13525 line
30941	TUBGCP6	NM_020461.2	533	ttcgtatcacggcgtatgattgc	120396	-	see also 13526 line
30942	TUBGCP6	NM_020461.2	1746	cgcttatggcggagttcatgattc	120411	-	see also 13526 line
30943	UNC84B	NM_015374.1	893	ctgacgtatggtgcttggtattt	120439	-	see also 6401 line
30944	UNC84B	NM_015374.1	1006	cagagactcatcgcgcacatttc	120440	-	see also 6401 line
30945	GABARAP	NM_007278.1	183	gaccgggtgcgggtgatagtaga	120451	-	see also 13528 line
30946	GABARAP	NM_007278.1	185	ccgggtgcgggtgatagtagaaa	120452	-	see also 13528 line
30947	GAPCENA	NM_012197.2	1926	cgggatatatacgcgaacattcc	120518	-	see also 5186 line
30948	GAPCENA	NM_012197.2	1432	ttcagcaaacgttagtactactga	120501	-	see also 5186 line
30949	LMOD1	NM_012134.1	1124	gactgaggtgaacgtcaacaact	120553	-	see also 13530 line
30950	LMOD1	NM_012134.1	1067	agctccacgcatattgatgagc	120552	-	see also 13530 line
30951	TNNT1	NM_003283.3	294	gacactcatcgtatcatattcg	120561	-	see also 13531 line
30952	TNNT1	NM_003283.3	234	ggcggtgactctgatgacatcc	120559	-	see also 13531 line
30953	TNNT3	NM_006757.1	198	ggctcagacaagaacctaattgg	120562	-	see also 13532 line
30954	KIFAP3	NM_014970.2	563	aaccgcgtgattcattgttcagg	120573	-	see also 6160 line
30955	KIFAP3	NM_014970.2	1358	atcacccctcgcactttactaaa	120596	-	see also 6160 line
30956	MAPK8IP2	NM_012324.2	2406	tcocgcgaacagctgctatttg	120664	-	see also 5275 line
30957	MAPK8IP2	NM_012324.2	2062	acggggggagcgcgggtgtttcc	120662	-	see also 5275 line
30958	MAPK8IP3	NM_015133.1	3978	ggcagagcgcagctcacatcatcg	120688	-	see also 13536 line
30959	MAPK8IP3	NM_015133.1	3568	gggctccgagcccaataagacatc	120683	-	see also 13536 line
30960	TRIM2	NM_015271.2	1087	acctcgggacgtatttaacacc	120701	-	see also 6301 line
30961	TRIM2	NM_015271.2	1083	cacaacctcgggacgtatttaac	120700	-	see also 6301 line
30962	TNKS1BP1	NM_033396.1	5351	tcggcggtccagcgttcgaaatc	120752	-	see also 13538 line
30963	TNKS1BP1	NM_033396.1	3558	ggaggctgggtcgggtgagtttagc	120742	-	see also 13538 line
30964	ARGBP2	NM_003603.2	2171	ccgcatctcatcacgtatagagaaac	120786	-	see also 13539 line
30965	ARGBP2	NM_003603.2	2567	acggtttcaggctctgtataact	120798	-	see also 13539 line
30966	ARGBP2	NM_003603.2	1939	acggtaggtccctcctagagttac	120779	-	see also 13539 line
30967	BAIAP2	NM_006340.1	122	accggctcacggaaaatgtctat	120837	-	see also 4436 line
30968	BAIAP2	NM_006340.1	168	ccttagctctccggaacttcacg	120840	-	see also 4436 line
30969	CDC42EP3	NM_006449.3	1174	gggaactacgagcgttttaccctgg	120847	-	see also 4523 line
30970	CDC42EP3	NM_006449.3	1617	caccctcatcgagctcatcaagg	120855	-	see also 4523 line
30971	AF3P21	NM_016453.2	1288	ggcaggttgggcactatatgaggg	120864	-	see also 13542 line
30972	AF3P21	NM_016453.2	1065	ctggcctgagccacgaattatgc	120861	-	see also 13542 line
30973	DLG1	NM_004087.1	997	tgcgggtcaatgactgtatatta	120893	-	see also 2754 line
30974	JUP	NM_002230.1	1133	atccgtgtgtcccgcaataagc	120947	-	see also 13544 line
30975	JUP	NM_002230.1	1539	aactctgtgctgtcgaactatgg	120948	-	see also 13544 line
30976	JUP	NM_002230.1	916	tggccgacggggctgcaaaagatg	120945	-	see also 13544 line

図46 (続き)

877

30977	MYLP	NM_013262.3	1238	gggtgtggccctggttcaaga	120977	-	see also 13545 line
30978	MYLP	NM_013262.3	887	gccaataataggatagattat	120971	-	see also 13545 line
30979	PKD2	NM_000297.2	1009	ctttaggggtccacgaatacg	120992	-	see also 262 line
30980	PKD2	NM_000297.2	1966	ttcactcaattcgtactatatt	121022	-	see also 262 line
30981	RPH3AL	NM_006987.2	529	gaccatgaggcggaatgtagtg	121038	-	see also 13547 line
30982	RPH3AL	NM_006987.2	685	ggccctgtggctgtgaatgat	121040	-	see also 13547 line
30983	SDC1	NM_002997.3	311	ggcgcaattgtgctactaatt	121043	-	see also 13548 line
30984	SDC1	NM_002997.3	312	ccgcaattgtgctactaattt	121044	-	see also 13548 line
30985	SDC2	NM_002998.2	1182	aggcaactactaaggagtttat	121066	-	see also 13549 line
30986	SDC2	NM_002998.2	721	agcttcaggagtgatcctattg	121050	-	see also 13549 line
30987	SDC3	NM_014654.1	2479	ggagtgcctgtagctgtgattgt	121069	-	see also 13550 line
30988	SDC3	NM_014654.1	1592	agcaggagtcggcattgagaca	121067	-	see also 13550 line
30989	SDC4	NM_002999.2	338	cccacgaaacccgaagaactaga	121072	-	see also 2014 line
30990	SDC4	NM_002999.2	382	gagaatctcacccctggaagaga	121075	-	see also 2014 line
30991	SSH3BP1	NM_005470.1	491	ttcggaaccctatgattacaca	121088	-	see also 13551 line
30992	SSH3BP1	NM_005470.1	657	gggacgggaatactcctataaaa	121094	-	see also 13551 line
30993	PPP3R1	NM_000945.2	544	tccttagtacgcgcggaatag	121126	-	see also 625 line
30994	PPP3R1	NM_000945.2	552	tacagcgagtaatagatatttc	121128	-	see also 625 line
30995	ADCY1	NM_021116.1	1016	ttcgcaagttcgatgaattagc	121136	-	see also 13553 line
30996	ADCY1	NM_021116.1	2015	gggtccttcagattcagattcgc	121166	-	see also 13553 line
30997	ADD3	NM_016824.1	1732	gacaatcgaactgaacaaacaa	121236	-	see also 6969 line
30998	ADD3	NM_016824.1	1727	aagagggacaactogaacgtaaaca	121233	-	see also 6969 line
30999	AKAP5	NM_004857.2	1819	gtcaaccacaggatcaagtgaag	121252	-	see also 13555 line
31000	AKAP5	NM_004857.2	1539	gtcttgtaaacacgcaggaaagg	121244	-	see also 13555 line
31001	GAP43	NM_002045.2	177	ctcataaggccgcgaaccaaatt	121270	-	see also 13556 line
31002	GAP43	NM_003870.2	2262	ctgggggtgactgcgcataaac	121269	-	see also 13556 line
31003	IQGAP1	NM_003870.2	2336	cgctgcctggatatacttagttcg	121322	-	see also 2627 line
31004	IQGAP1	NM_003870.2	2336	cgctgcctggatatacttagttcg	121325	-	see also 2627 line
31005	ITPKA	NM_002220.1	1328	cgccggaggacggctatttgcgg	121395	-	see also 13558 line
31006	ITPKA	NM_002220.1	539	gcgggtcataagcccttcaaga	121390	-	see also 13558 line
31007	ITPKB	NM_002221.2	781	cgaggctcatccgcttttgaag	121400	-	see also 13559 line
31008	ITPKB	NM_002221.2	782	agggtccatccgcttttgaagg	121401	-	see also 13559 line
31009	KCNH1	NM_002238.2	235	ttcgccgctccaatgatactaat	121421	-	see also 13560 line
31010	KCNH1	NM_002238.2	238	ggcggtccaatgatactaatatt	121424	-	see also 13560 line
31011	KCNH5	NM_139318.3	1737	ggcggttagagttccaaaccattc	121547	-	see also 9688 line
31012	KCNH5	NM_139318.3	1244	ctccatctgcctacaataccagt	121538	-	see also 9688 line
31013	KCNN1	NM_002248.3	554	gcctaggagaaacccctcaatgt	121573	-	see also 13562 line
31014	KCNN1	NM_002248.3	1507	caggagagacgtggctcatctaca	121575	-	see also 13562 line
31015	KCNN2	NM_021614.2	1494	ttggagcgtatggttgatataca	121599	-	see also 13563 line
31016	KCNN2	NM_021614.2	1498	agcgatggttgatatacaataa	121601	-	see also 13563 line
31017	KCNN3	NM_002249.3	2491	ttccgaccocgtacacaagttica	121633	-	see also 1447 line
31018	KCNN3	NM_002249.3	1793	atgacacagcagcagcactagt	121620	-	see also 1447 line
31019	KCNN4	NM_002250.2	937	agcatcgccgtctcaataaagt	121640	-	see also 13565 line
31020	KCNN4	NM_002250.2	769	cgcccgctgcgtcaggatttagg	121637	-	see also 13565 line

878

図46 (続き)

31021	MAP2	NM_002374.2	5402	aggtggcgacgtgtgaaattg	121759	-	see also 1526 line
31022	NOS1	NM_000620.1	3302	gagcggaacacggcttagtgt	121807	-	see also 417 line
31023	NOS1	NM_000620.1	4853	agggatgacaacgcataccatga	121819	-	see also 417 line
31024	NOS2A	NM_000625.3	535	ggcagcgggatgactttccaaga	121828	-	see also 419 line
31025	NOS2A	NM_000625.3	680	ttctacctcaagctatcgaatt	121833	-	see also 419 line
31026	NRGN	NM_006176.1	269	gcccagcagcagcattctagaca	121854	-	see also 13568 line
31027	PDE1A	NM_005019.2	1075	cacgtgagtcagcttatogact	121887	-	see also 13569 line
31028	PDE1A	NM_005019.2	1157	ttcggaacctagtgattgaaatg	121888	-	see also 13569 line
31029	PDE1B	NM_000924.2	1057	cagctctgtttccgattgatgc	121913	-	see also 13570 line
31030	PDE1B	NM_000924.2	574	acggatgtccggagaaacataca	121904	-	see also 13570 line
31031	PHKA1	NM_002637.1	3075	agcgttcgtcccaactgattcaaa	121973	-	see also 1708 line
31032	PHKA2	NM_000292.1	3151	cagatgactagcggcttagtgc	122078	-	see also 257 line
31033	PHKA2	NM_000292.1	2278	ttgcggactaaagttctaagtc	122060	-	see also 257 line
31034	PHKB	NM_000293.1	2369	tgcgtacggcgctgatttacc	122168	-	see also 261 line
31035	PHKB	NM_000293.1	1746	ttgtaccggattattttogacc	122143	-	see also 261 line
31036	PPP3CA	NM_000944.2	911	aagtattcagaacgctataga	122206	-	see also 13574 line
31037	PPP3CA	NM_000944.2	1733	accctgcaaaagcgtactgttga	122221	-	see also 13574 line
31038	PPP3CB	NM_021132.1	1660	acacggggcggggcaaccatact	122270	-	see also 13575 line
31039	PPP3CB	NM_021132.1	466	ctgctaatacacgatacctttt	122237	-	see also 13575 line
31040	PPP3CB	NM_021132.1	487	tgctaatacacgatacctttt	122238	-	see also 13575 line
31041	PPP3CC	NM_005605.3	1476	tacagctctgtaaggagatactca	122297	-	see also 13576 line
31042	PPP3CC	NM_005605.3	355	accacgcgcgcgtcatcaaaag	122272	-	see also 13576 line
31043	RGS1	NM_002922.2	606	tgcaggctaatagcttaagtga	122326	-	see also 13577 line
31044	RGS1	NM_002922.2	452	gacttccgaactcagaaatctac	122321	-	see also 13577 line
31045	RGS1	NM_002922.2	91	ttcaactctagacgacaaaatgc	122312	-	see also 13577 line
31046	RGS16	NM_002928.2	485	cagggcacaccagatottgagg	122330	-	see also 13578 line
31047	RGS16	NM_002928.2	515	ttgcagtgaggccctaaagagg	122331	-	see also 13578 line
31048	RGS2	NM_002923.1	158	gacccgttgagctacttttacc	122334	-	see also 13579 line
31049	RGS2	NM_002923.1	159	accggttgagctacttttaca	122335	-	see also 13579 line
31050	RGS4	NM_005613.3	425	atcaaatcacatctaaactaag	122348	-	see also 13580 line
31051	RGS4	NM_005613.3	157	ttgcttgagagtgcaaaagata	122342	-	see also 13580 line
31052	RGS4	NM_005613.3	164	aggagtgcaaaagatatgaaca	122344	-	see also 13580 line
31053	RYR2	NM_001035.1	12549	aacgcacgagaggtctatttt	122637	-	see also 634 line
31054	RYR2	NM_001035.1	3413	gocggacggttgattttgaatt	122421	-	see also 634 line
31055	RYR2	NM_001035.1	12550	acgcacagagaggtctattttg	122638	-	see also 634 line
31056	SLC8A1	NM_021097.1	84	tacaacatgcggcgatttaagct	122715	-	see also 8084 line
31057	SLC8A1	NM_021097.1	87	acaatgcggcgatttaagctttc	122716	-	see also 8084 line
31058	SLC8A3	NM_033262.3	3496	caacactagagcgtattgtaca	122814	-	see also 9389 line
31059	SLC8A3	NM_033262.3	3370	ctgcacagcgtgctctgtacc	122813	-	see also 9389 line
31060	STRN	NM_003162.1	1654	acaatgacccctatgattotta	122856	-	see also 2135 line
31061	STRN	NM_003162.1	1291	ggccttaagggtggccaatgaagc	122842	-	see also 2135 line
31062	STRN3	NM_014574.2	790	cagcgggttaagctactttgg	122898	-	see also 5757 line
31063	STRN3	NM_014574.2	1277	ttgcagactgaaggtaacaat	122913	-	see also 5757 line
31064	STRN4	NM_013403.1	1307	cgcactacgacggcattgcttc	122967	-	see also 5431 line

図46 (続き)

31065	STRN4	NM_013403.1	1833	ctctggagacaccgctctgtatg	122974	-	see also 5431 line
31066	IL18R1	NM_003855.2	1329	aagccgaagactaatcatgttc	123005	-	see also 13586 line
31067	IL18R1	NM_003855.2	792	atcgattctcaatatacatgaag	122998	-	see also 13586 line
31068	IL18RAP	NM_003853.2	706	gggtagtaacagacctatctgtg	123025	-	see also 13587 line
31069	IL18RAP	NM_003853.2	734	tggtaccacaacacctcgaatgg	123026	-	see also 13587 line
31070	IL1R1	NM_000877.2	1231	gacctatgacgcatatatactgt	123119	-	see also 13588 line
31071	IL1R1	NM_000877.2	422	gtggagaatgagcctaacttatg	123075	-	see also 13588 line
31072	IL1RAP	NM_002182.2	467	ccccgagaaccgattagtaagg	123150	-	see also 1392 line
31073	IL1RAP	NM_002182.2	466	tcccgagaaacgcatagtaag	123149	-	see also 1392 line
31074	IL1RAPL1	NM_014271.2	1676	ttcataaacgagagctaatgtac	123240	-	see also 13590 line
31075	IL1RAPL1	NM_014271.2	1666	agcgttctcctcataaagagaga	123239	-	see also 13590 line
31076	IL1RAPL2	NM_017416.1	1185	cagcaggatccgctatttagaaa	123282	-	see also 6987 line
31077	IL1RAPL2	NM_017416.1	1724	aagctgacctggcgaattatcc	123299	-	see also 6987 line
31078	IL1RL1	NM_003856.2	1168	ggcacaccgtgaagactaagtagg	123370	-	see also 13592 line
31079	IL1RL1	NM_003856.2	363	accgtggattggtattactaca	123340	-	see also 13592 line
31080	IL1RL2	NM_003854.2	704	acgcgtgtcaagccatactgaca	123427	-	see also 13593 line
31081	IL1RL2	NM_003854.2	1677	cacggagcagtcacagtgatga	123469	-	see also 13593 line
31082	MYD88	NM_002468.2	788	agcgactatcccatcaagtac	123478	-	see also 13594 line
31083	MYD88	NM_002468.2	367	gaggagagattgcacaaagtatat	123472	-	see also 13594 line
31084	SIGIRR	NM_021805.1	1392	atctggctcgcgaacacacagt	123485	-	see also 13595 line
31085	SIGIRR	NM_021805.1	756	acgcgaagtgtgaactatc	123481	-	see also 13595 line
31086	SIGIRR	NM_021805.1	1103	gtgactccttcctcagattttg	123483	-	see also 13595 line
31087	TLR1	NM_003263.2	1208	ttcggtttccgaaggttat	123525	-	see also 2214 line
31088	TLR1	NM_003263.2	1281	caocgatgtccacatgtttgc	123527	-	see also 2214 line
31089	TLR10	NM_030956.1	2182	gacgttcatctccacgaatttc	123606	-	see also 13597 line
31090	TLR10	NM_030956.1	2758	cccaagatagcgtaaatgtgg	123624	-	see also 13597 line
31091	TLR2	NM_003264.2	1474	aacttatccagcacacgaataga	123665	-	see also 13598 line
31092	TLR2	NM_003264.2	471	atcctataattacttatctaat	123640	-	see also 13598 line
31093	TLR6	NM_006088.2	148	ttctcgaacggaagtgaattgc	123687	-	see also 13599 line
31094	TLR6	NM_006088.2	2326	ctcatgacgcagcggacttatt	123736	-	see also 13599 line
31095	TLR6	NM_006088.2	691	ttcgctatcaagtgaaacatc	123707	-	see also 13599 line
31096	IL1R2	NM_004633.3	234	tgcgctgtacgtgtgttgtaag	123742	-	see also 13600 line
31097	IL1R2	NM_004633.3	542	acctacgtctgcactactagaaa	123745	-	see also 13600 line
31098	IL1R2	NM_004633.3	545	tacgtctgactactagaataag	123746	-	see also 13600 line
31099	IL2RA	NM_000417.1	796	tgctctgcacaacaacagattt	123783	-	see also 13601 line
31100	IL2RA	NM_000417.1	589	gtgggagataggtttattatca	123779	-	see also 13601 line
31101	IL2RB	NM_000878.2	1159	tgcttgagccgcgccttaagc	123799	-	see also 13602 line
31102	IL2RB	NM_000878.2	1158	gtgcctgagccgcgccttaag	123798	-	see also 13602 line
31103	IL2RG	NM_000206.1	288	aagaactcggataatgtataaagt	123818	-	see also 13603 line
31104	IL2RG	NM_000206.1	599	cagctggactgaacaatcagtg	123823	-	see also 13603 line
31105	IL10RA	NM_001558.2	587	tcgcaagggtgccgggaacttca	123841	-	see also 13604 line
31106	IL10RA	NM_001558.2	695	atctgtgcttcccggaagtaaca	123844	-	see also 13604 line
31107	IL10RB	NM_000628.3	303	tactacctgacgggaatgtgatt	123861	-	see also 13605 line
31108	IL10RB	NM_000628.3	157	atggtaccacctcccgaaaatgt	123854	-	see also 13605 line

880

図46 (続き)

31109	IL10RB	NM_000628.3	830	tgcgtggtgcgtttacaagaag	123876	-	see also 13605 line
31110	IL8RA	NM_000634.2	1032	tacgcttcacgcgcceaaattt	123892	-	see also 13606 line
31111	IL8RA	NM_000634.2	1134	tacacttcctcgtctgcaatgt	123897	-	see also 13606 line
31112	IL8RA	NM_000634.2	1068	ctcaagatcctggtctgcatgg	123895	-	see also 13606 line
31113	IL8RB	NM_001557.2	1381	ctctcgaagattctagctataca	123902	-	see also 13607 line
31114	IL8RB	NM_001557.2	451	tggaaaggtgaagattcttagtaa	123899	-	see also 13607 line
31115	IL7R	NM_002185.2	451	tagaactaacacactatagttaaa	123913	-	see also 1366 line
31116	IL7R	NM_002185.2	1214	tgcattgagcgcctctattctct	123941	-	see also 1396 line
31117	IL6R	NM_000565.2	1207	atcggtctgaacgggtcaagaca	123957	-	see also 13608 line
31118	IL6R	NM_000565.2	1084	ctgacccgctgcgcacacacaca	123955	-	see also 13608 line
31119	IL6ST	NM_002184.2	1681	accgtgcacgcacacatttaag	124021	-	see also 1395 line
31120	IL6ST	NM_002184.2	918	goccaatccgcgcacacatttat	123992	-	see also 1395 line
31121	IL6ST	NM_002184.2	1680	taccgtgcacgcacacatttaa	124020	-	see also 1395 line
31122	CSF2RB	NM_000395.1	2525	ctctgcctcggagtaaaccttc	124072	-	see also 13610 line
31123	CSF2RB	NM_000395.1	967	cgcgaaccacggccaatacatcg	124063	-	see also 13610 line
31124	IL5RA	NM_000564.2	620	atcatcgtggcgcatgtattact	124075	-	see also 13611 line
31125	IL5RA	NM_000564.2	1243	ctggcttgcgtgctgtttaacg	124093	-	see also 13611 line
31126	IL4R	NM_000418.1	990	ggcgccctcgtggctataataatc	124119	-	see also 13612 line
31127	IL4R	NM_000418.1	609	accggtatccctgcacacattac	124111	-	see also 13612 line
31128	IL3RA	NM_002183.2	490	gaccgatatcagatgtgtttaaag	124130	-	see also 13613 line
31129	IL3RA	NM_002183.2	491	accgatcagatgtgtttaaaga	124131	-	see also 13613 line
31130	IL3RA	NM_002183.2	775	tgcacaacagcgcgcacacagtcg	124136	-	see also 13613 line
31131	IL21R	NM_021798.2	528	ctcttggcgtcagattacgaag	124155	-	see also 13615 line
31132	IL21R	NM_021798.2	529	tcttggcgtcagattacgaaga	124156	-	see also 13615 line
31133	IL21R	NM_021798.2	385	atggccgagcagacatttcagtg	124153	-	see also 13615 line
31134	IL17R	NM_014339.3	1876	tccgcactggttgaattgagaga	124174	-	see also 13616 line
31135	IL17R	NM_014339.3	550	caggcgggtggcgttttaacftca	124170	-	see also 13616 line
31136	IL17R	NM_014339.3	546	accacagggcgggtggcgttttaac	124169	-	see also 13616 line
31137	IL12RB2	NM_001559.2	1860	tgcacactgatttaacataatg	124209	-	see also 13617 line
31138	IL12RB2	NM_001559.2	1317	ctccgtggagacattagaatcaaa	124196	-	see also 13617 line
31139	IL13RA2	NM_000640.2	141	ttagctatcggatgctttatatac	124229	-	see also 13618 line
31140	IL13RA2	NM_000640.2	251	tcccgatactagggttatctct	124233	-	see also 13618 line
31141	IL15RA	NM_002189.2	784	ccgcgtggcgcagcgttgaatgg	124291	-	see also 13619 line
31142	IL15RA	NM_002189.2	298	gaaggagtcggttgaacaagg	124284	-	see also 13619 line
31143	IL17RB	NM_018725.2	94	cccgagagcgcgcacggtcaatgt	124293	-	see also 7582 line
31144	IL17RB	NM_018725.2	819	agcgactgcacgcacataaagg	124317	-	see also 7582 line
31145	IL17RB	NM_018725.2	684	agcaactatcagcaggtttctca	124311	-	see also 7582 line
31146	IL18BP	NM_005699.2	1106	aagcagtgctcagcagcaggaagt	124336	-	see also 13621 line
31147	CCR5	NM_000579.1	662	aactcttgacaggcctctattt	124345	-	see also 13622 line
31148	CCR5	NM_000579.1	1355	agcgacagcagcagttacacc	124351	-	see also 13622 line
31149	CCR6	NM_004367.3	500	gtctatgacagcagcgtctctct	124355	-	see also 13623 line
31150	CCR6	NM_004367.3	743	aacactaccgcgcagcaaatca	124362	-	see also 13623 line
31151	CCR8	NM_005201.2	147	gacacacagcagcagcactact	124378	-	see also 13624 line
31152	CCR8	NM_005201.2	189	ccctgtgatcgcggaactattc	124380	-	see also 13624 line

図46 (続き)

881

31153	CCR8	NM_005201.2	188	gcccctgtgatcggaacttatt	124379	-	see also 13624 line
31154	CCR9	NM_006641.2	153	aagactacgttaacttaacttc	124403	-	see also 4695 line
31155	CCR9	NM_006641.2	323	accgacatgttccttttgaattt	124408	-	see also 4695 line
31156	CCRL1	NM_016557.2	649	cccgctactctaggaaacatcaatg	124435	-	see also 13626 line
31157	CCRL1	NM_016557.2	648	ccccctaccctaggaaacatcaat	124434	-	see also 13626 line
31158	CCRL1	NM_016557.2	260	ttccatggtagtggcaatttatg	124422	-	see also 13626 line
31159	GPR2	NM_016602.1	79	gccactgcggaggttggtctaca	124453	-	see also 13627 line
31160	CXCR3	NM_001504.1	510	gaccgctaccctgaacatagttca	124457	-	see also 13628 line
31161	CXCR3	NM_001504.1	512	ccgctactgaacacatagttcatg	124458	-	see also 13628 line
31162	CCBP2	NM_001296.3	743	gtggaactgcacagcagatttcg	124468	-	see also 13629 line
31163	CCBP2	NM_001296.3	523	tggtagacactctttatactatt	124465	-	see also 13629 line
31164	CCL13	NM_005408.2	168	atctacttgccttcacattta	124476	-	see also 13630 line
31165	CCL13	NM_005408.2	183	cacatttagcagtaagaagatct	124477	-	see also 13630 line
31166	CCR1	NM_001295.1	818	gacccctacacatttgactatctac	124500	-	see also 13631 line
31167	CCR1	NM_001295.1	819	accctctacaaatttgactatact	124501	-	see also 13631 line
31168	CCR2	NM_000647.3	89	cacactctgttctcgtttataca	124503	-	see also 13632 line
31169	CCR2	NM_000647.3	162	tacggtgctcctcgtcacaataat	124508	-	see also 13632 line
31170	CCR3	NM_001837.2	626	tcggaattatgacaaacatctac	124521	-	see also 13633 line
31171	CCR3	NM_001837.2	1476	gccggaactctctatttggtttt	124533	-	see also 13633 line
31172	CCR3	NM_001837.2	1470	agcagagccggaactctctatttg	124531	-	see also 13633 line
31173	CCR4	NM_005508.2	82	cctcagatggaagacatacacgc	124538	-	see also 3848 line
31174	CCR4	NM_005508.2	590	tactgagcgaacacatacctact	124547	-	see also 3848 line
31175	CCR7	NM_001838.2	214	aaggacgtcggaactttaaacg	124555	-	see also 13635 line
31176	CCR7	NM_001838.2	298	gtcgtgtgacctatctatttt	124557	-	see also 13635 line
31177	CMKLR1	NM_004072.1	1547	accgcagccatagaagctttacc	124572	-	see also 13636 line
31178	CMKLR1	NM_004072.1	1507	ctggtcaatgctcctaagtgaaaga	124570	-	see also 13636 line
31179	CX3CR1	NM_001337.2	821	caccctacaacgttatgatttc	124585	-	see also 13637 line
31180	CX3CR1	NM_001337.2	1037	ggcgctcagtcacacgttgatttc	124588	-	see also 13637 line
31181	CX3CR1	NM_001337.2	692	tcgccctgctcattatgagttat	124581	-	see also 13637 line
31182	CXCR4	NM_003467.1	946	caccgagccctagcttcttcc	124602	-	see also 13638 line
31183	CXCR4	NM_003467.1	240	ctgggaattgtgggaactggattg	124595	-	see also 13638 line
31184	XCR1	NM_005283.1	24	gagcaccaccttttttactatg	124609	-	see also 13640 line
31185	IFNGR1	NM_000416.1	220	taccgtagagtgaaagaactatg	124614	-	see also 13641 line
31186	IFNGR1	NM_000416.1	1207	acctggcagcctcctttaaact	124643	-	see also 13641 line
31187	IFNGR1	NM_000416.1	530	ccggaactaccgtttacattag	124628	-	see also 13641 line
31188	IFNGR2	NM_005534.1	1043	ttcaactatcggaatgtgact	124663	-	see also 13642 line
31189	IFNGR2	NM_005534.1	1324	gtcgggcatttaagcaacatc	124671	-	see also 13642 line
31190	IFNGR2	NM_005534.1	1233	ctccattcttggaataactaa	124666	-	see also 13642 line
31191	IFNAR1	NM_000629.1	991	ctccgcgtacaagcatctgatgg	124704	-	see also 13643 line
31192	IFNAR1	NM_000629.1	1090	aacattagatcccttagtgattc	124707	-	see also 13643 line
31193	IFNAR1	NM_000629.1	1152	cagcctgtgatccaggattatc	124712	-	see also 13643 line
31194	IFNAR2	NM_000874.2	933	aacacgaactactgtgtatctgt	124754	-	see also 13644 line
31195	IFNAR2	NM_000874.2	861	aagaagcataaacccgaataaa	124748	-	see also 13644 line
31196	IL22RA1	NM_021258.2	1239	tcctcctctggggatgcatgg	124774	-	see also 13645 line

882

図46 (続き)

31197	IL22RA1	NM_021258.2	1497	aggagacacacacagctacctaagg	124779	-	see also 13645 line
31198	CRIM1	NM_016441.1	2272	cgcaataacacgctacctaatta	124817	-	see also 13646 line
31199	CRIM1	NM_016441.1	2742	gtggccacgcctcgtgaaatg	124829	-	see also 13646 line
31200	CTGF	NM_001901.1	422	ggcgtgtgtcccccgaagaatgg	124848	-	see also 13647 line
31201	CTGF	NM_001901.1	711	gcccagacccaacatgatgata	124852	-	see also 13647 line
31202	CTGF	NM_001901.1	1124	tacaactgtcccgagacaatga	124859	-	see also 13647 line
31203	CYR61	NM_001554.3	1083	ccccgaacacagtcaggtttact	124872	-	see also 13648 line
31204	CYR61	NM_001554.3	694	ctgtgacgagtagtatcaagg	124868	-	see also 13648 line
31205	ESM1	NM_007036.2	120	ggcgcctgaggaataatattgc	124880	-	see also 13649 line
31206	ESM1	NM_007036.2	589	ctccgtaatgaggaataattga	124889	-	see also 13649 line
31207	HTRA3	NM_053044.2	657	accagccgtgtccacatagagc	124892	-	trypsin
31208	IGFALS	NM_004970.1	577	acctcaacctcggctgggaatagc	124893	-	see also 13650 line
31209	IGFBP1	NM_000596.1	622	gagcccatcagctacatgatgag	124899	-	see also 13651 line
31210	IGFBP1	NM_000596.1	619	tgggagcgccatcagctacattga	124898	-	see also 13651 line
31211	IGFBP2	NM_000597.1	663	gcccctcaagtcgggtatgaagg	124906	-	insulin-like growth factor binding
31212	IGFBP2	NM_000597.1	1035	ccccgagtgatctctcttaca	124907	-	see also 31211 line
31213	IGFBP3	NM_000598.2	716	atggtccctcgcctgtagaataatg	124910	-	see also 13652 line
31214	IGFBP3	NM_000598.2	697	tccaagcgggagacagacaatagg	124909	-	see also 13652 line
31215	IGFBP4	NM_001552.1	706	aagcaactcgcgaataatcgaga	124916	-	see also 13653 line
31216	IGFBP4	NM_001552.1	703	cagaagcaactcgcgaataatcg	124915	-	see also 13653 line
31217	IGFBP6	NM_002178.1	585	gtctaccgaggggctcaaacact	124924	-	see also 13654 line
31218	NOV	NM_002514.2	1014	gtgtcccccaggggcaaatagtc	124937	-	see also 13656 line
31219	NOV	NM_002514.2	421	taccgcaagtggaggaataattca	124933	-	see also 13656 line
31220	PRSS11	NM_002775.2	1027	aactcggagggcccgcttagtaaa	124957	-	see also 1812 line
31221	PRSS11	NM_002775.2	591	tgcctgtgttcattatogaaattg	124946	-	see also 1812 line
31222	WISP1	NM_003882.2	159	cccctacgaccatggactttacc	124965	-	see also 2639 line
31223	WISP1	NM_003882.2	1068	ccgcacaggtctctatggattaat	124981	-	see also 2639 line
31224	WISP2	NM_003881.2	869	ggggtcgcagtcacacaaacagt	124985	-	signal transduction
31225	WISP2	NM_003881.2	867	cagggtgcagtcacacaaacaa	124984	-	see also 31224 line
31226	WISP3	NM_003880.2	1022	ctgtatccctaataagtctaaaa	125010	-	see also 13659 line
31227	WISP3	NM_003880.2	475	ggcaggttaaccacaggtacattat	124990	-	see also 13659 line
31228	FIBP	NM_004214.4	280	ggcgcacacatggaccattacc	125020	-	see also 13660 line
31229	FIBP	NM_004214.4	181	tgcctcttggctcgtatggttact	125019	-	see also 13660 line
31230	LTBP1	NM_000627.1	2039	ggccctccggtgtggaatactgt	125074	-	see also 420 line
31231	LTBP1	NM_000627.1	132	ggcctcgcctcctagtggataacc	125032	-	see also 420 line
31232	AVPR1A	NM_000706.3	2139	cgccgtcgtcggctgactttcg	125133	-	see also 13662 line
31233	AVPR1A	NM_000706.3	2756	aagcgggtgtggcctccaaaag	125134	-	see also 13662 line
31234	AVPR1B	NM_000707.2	1416	gacaagaatgccctcgtatgaaga	125145	-	see also 13663 line
31235	AVPR1B	NM_000707.2	1161	atctgccatgagatcgtgaaaaa	125143	-	see also 13663 line
31236	COPB2	NM_004766.1	1653	tgggtagcgcattgcttcatta	125197	-	see also 3276 line
31237	COPB2	NM_004766.1	2698	tactcgaactagaagtagatttg	125234	-	see also 3276 line
31238	GNB2L1	NM_006098.2	380	caccacacagggcgatttgg	125242	-	see also 4244 line
31239	GNB2L1	NM_006098.2	461	tggatctcggagataaaaccatca	125246	-	see also 4244 line

圖46 (續七)

883

[illegible]

884

図46 (続き)

31283	DLG4	NM_001365.1	1250	atcgtgacgcccacatctttt	126157	-	see also 927 line
31284	HSPB7	NM_014424.3	947	cgccgtcacccacacagaaca	126188	-	see also 13688 line
31285	HSPB7	NM_014424.3	723	ccctaggagacccctatgagtt	126186	-	see also 13688 line
31286	ITGB1BP1	NM_004763.2	515	aagtatggcataaagaatcaac	126201	-	see also 3274 line
31287	ITGB1BP1	NM_004763.2	209	tcccaaaagtagcgaatcagtac	126192	-	see also 3274 line
31288	ITGB3BP	NM_014288.3	192	agcacagaatggactatcaaat	126212	-	see also 13680 line
31289	ITGB3BP	NM_014288.3	50	ctgaatttgatgctcttga	126206	-	see also 13690 line
31290	MILL74	NM_005936.1	220	acgtctcgcggagaatttcgacc	126223	-	see also 13691 line
31291	MILL74	NM_005936.1	1424	ttggggcgctcccatgtatttaag	126242	-	see also 13691 line
31292	PRKCBP	NM_012407.1	885	ttggcattcggcttcgaaaac	126311	-	see also 5311 line
31293	PRKCBP	NM_012407.1	741	aacctctacgggctttatga	126308	-	see also 5311 line
31294	SNX17	NM_014748.2	793	agccttgaggtcaagagtataa	126325	-	see also 5941 line
31295	SNX17	NM_014748.2	949	cagcacccggaactcaaatctct	126332	-	see also 5941 line
31296	TOPBP1	NM_007027.2	2411	acgtctgttacaccttagatat	126402	-	see also 4919 line
31297	TOPBP1	NM_007027.2	2949	atcggagatataaattctataaa	126421	-	see also 4919 line
31298	TRIM3	NM_006458.2	2135	tagaccggaatggacatatatt	126468	-	see also 4530 line
31299	TRIM3	NM_006458.2	1302	ggggcgatcgggtgctcaattctg	126465	-	see also 4530 line
31300	ELMO1	NM_014800.8	2005	gtctgcattacggagacttaga	126521	-	see also 5994 line
31301	ELMO1	NM_014800.8	2008	ctgcattacggagacttagaaga	126522	-	see also 5994 line
31302	LRRFP2	NM_006309.1	2119	cggaaactacaacggaggttacg	126583	-	see also 13697 line
31303	LRRFP2	NM_006309.1	2123	agctacaacggaggttagcaaca	126584	-	see also 13697 line
31304	KRT14	NM_000526.3	523	ggggcctcgtcgtgagatcaagact	126587	-	see also 13698 line
31305	YWHAB	NM_003404.3	900	tacgtgaatgaagaggtcttata	126598	-	see also 13699 line
31306	YWHAB	NM_003404.3	786	tgtgttggcttggcactaaatt	126596	-	see also 13699 line
31307	YWHAG	NM_012479.2	704	ccgattaggctggctctttaact	126604	-	see also 13700 line
31308	YWHAG	NM_012479.2	502	tgataaactccctgactcaagaat	126602	-	see also 13700 line
31309	YWHAG	NM_003405.2	824	cacactaaacgagagattctata	126608	-	see also 13701 line
31310	YWHAG	NM_003405.2	826	cactaaacgagagattctataag	126609	-	see also 13701 line
31311	YWHAG	NM_006826.2	516	gggtgtgtgtgatgatcgaataaca	126610	-	kinase_related, cell_cycle
31312	FCGR1A	NM_000566.2	935	ttcttgggtgacaatacgtataa	126623	-	see also 13702 line
31313	FCGR1A	NM_000566.2	207	ctcgaccccccagctacagaatca	126611	-	see also 13702 line
31314	FCGR2B	NM_004001.2	583	ccggttgagatcccaactctcc	126628	-	see also 13703 line
31315	FCGR2B	NM_004001.2	143	ccccagccttgggtctatctgc	126627	-	see also 13703 line
31316	FCGR3A	NM_000569.4	628	ggccctctcgttgggttctcaagg	126633	-	see also 13704 line
31317	FCGR3A	NM_000569.4	502	ggcctcgtgacttacttattgacg	126632	-	see also 13704 line
31318	FCGRT	NM_004107.3	938	cagcctcgtcgtcactaaacgt	126644	-	receptor_activity receptor
31319	FCGRT	NM_004107.3	936	tccacgcctcgtcgtcactaaca	126643	-	see also 31318 line
31320	FCGRT	NM_004107.3	944	tgtgtgactaactacagtcataaag	126646	-	see also 31318 line
31321	FCER1A	NM_002001.2	661	ggccctcctaaactactgtaat	126660	-	see also 13705 line
31322	FCER1A	NM_002001.2	571	aacacaaactcctcattacaaa	126657	-	see also 13705 line
31323	FCER1G	NM_004106.1	174	tgcgaagggcagctataaccagc	126671	-	see also 13706 line
31324	FCER1G	NM_004106.1	171	aagtgcgaagggcagctataacc	126670	-	see also 13706 line
31325	FCER2	NM_002002.3	360	ccgggaacgtctctcaagtctcc	126675	-	see also 13707 line

図46 (続き)

885

31326	FCER2	NM_002002.3	318	gggaacaccacacagagtgtaaaa	126673	-	see also 13707 line
31327	FCER2	NM_002002.3	655	gtgcaaacagtgccctgaaaagt	126677	-	see also 13707 line
31328	LGALS3	NM_002306.1	676	cagtacatcatcgggttaaaaa	126694	-	see also 13708 line
31329	LGALS3	NM_002306.1	398	tgcctcgcacgtcgataacaatt	126682	-	see also 13708 line
31330	MS4A2	NM_000139.2	518	tagctgggggaacgggaattacc	126705	-	see also 13709 line
31331	MS4A2	NM_000139.2	197	aagtattctcaggcagactattg	126699	-	see also 13709 line
31332	CD44	NM_000610.2	597	atggacaattaacataactatt	126735	-	see also 13710 line
31333	CD44	NM_000610.2	229	ggccctggcgagatcgattga	126720	-	see also 13710 line
31334	FN1	NM_002026.1	473	acctaggcaatgctgtgtgtgt	126771	-	see also 13711 line
31335	FN1	NM_002026.1	478	ggcaatgcgttgatttgaacttg	126773	-	see also 13711 line
31336	GP6	NM_016363.3	851	ctcggggctgtgatcctaata	126906	-	see also 13712 line
31337	GP6	NM_016363.3	341	ctcgtggccacgggagttttgc	126887	-	see also 13712 line
31338	GP6	NM_016363.3	709	cgctgaactgaccgtctcatca	126901	-	see also 13712 line
31339	ITGA10	NM_003637.3	278	gaccggagggggagcgtttatcg	126909	-	see also 13713 line
31340	ITGA10	NM_003637.3	808	gactgcccaagcaataatgttg	126914	-	see also 13713 line
31341	ITGA11	NM_012211.2	2161	atggatgagaggcggtatacac	126979	-	see also 5198 line
31342	ITGA11	NM_012211.2	3161	tagcgaacacgtcctgttaacac	126986	-	see also 5198 line
31343	ITGA2	NM_002203.2	266	accgaatgggagatgtgtataaa	126998	-	see also 13715 line
31344	ITGA2	NM_002203.2	1036	atcgctagtattccaacagaag	127027	-	see also 13715 line
31345	NID2	NM_007361.2	1657	accggaggtcttcacgtataatgc	127116	-	see also 5092 line
31346	NID2	NM_007361.2	3657	ctccataatcgctgggaattgatt	127154	-	see also 5092 line
31347	PCOLCE	NM_002593.2	406	cgagcgtcgcgacgctttgttg	127178	-	see also 13717 line
31348	PCOLCE	NM_002593.2	1152	tgcctgacttgtaoagctctattg	127184	-	see also 13717 line
31349	SERPINH1	NM_001235.2	1284	tcacgcgcaccccttttgattg	127199	-	see also 13718 line
31350	SERPINH1	NM_001235.2	1418	agcggctccctgctattcattgg	127202	-	see also 13718 line
31351	SPARC	NM_003118.1	487	gactacatcgggcgctgcaaat	127205	-	see also 2097 line
31352	A2M	NM_000014.3	1882	ctcggcgctcctcggtttacaac	127240	-	see also 1 line
31353	A2M	NM_000014.3	1652	gtcgtcgtgttgctctctatgc	127239	-	see also 1 line
31354	CGI-100	NM_016040.2	655	agctcgatcgaaacatacaag	127286	-	see also 6635 line
31355	CGI-100	NM_016040.2	290	atcgaggtaccgaagtttagatgg	127281	-	see also 6635 line
31356	CGI-100	NM_016040.2	701	tcttgctctatggtaatttagt	127287	-	see also 6635 line
31357	CGI-109	NM_181836.3	679	ctgaagctctgcacgattatca	127290	-	see also 13721 line
31358	CGI-109	NM_181836.3	698	atcagaactcttcctcgfttaaga	127291	-	see also 13721 line
31359	HSGP25L2 G	NM_017510.3	102	ggcgggaagcgctctacttctc	127298	-	see also 7016 line
31360	MGC23911	NM_144676.1	139	tctcgtggagctgatgataga	127305	-	see also 13724 line
31361	MGC23911	NM_144676.1	559	atggcgagatactacaacttgc	127319	-	see also 13724 line
31362	P24B	NM_007364.1	425	ctctcaacagaccgtctactttg	127335	-	see also 13725 line
31363	P24B	NM_007364.1	378	gtcaaggcggtttatcagtttg	127333	-	see also 13725 line
31364	RNP24	NM_006815.2	71	cacggtctcggtctattcgta	127340	-	see also 13726 line
31365	RNP24	NM_006815.2	72	acgggtctcggtctattcgtag	127341	-	see also 13726 line
31366	TMP21	NM_006827.4	399	gtggaggcgaaaaattacgaaga	127354	-	see also 13727 line
31367	TMP21	NM_006827.4	554	aacaacactcggtctctact	127359	-	see also 13727 line
31368	TMP21	NM_006827.4	404	ggcgaataattacgaagattg	127355	-	see also 13727 line

図 46 (続き)

886

31369	HPS4	NM_022081.4	1106	caccagtgatctgcataagattt	127369	-	see also 8266 line
31370	HPS4	NM_022081.4	841	tcgcgtgtttgtgacattct	127365	-	see also 8266 line
31371	HPS4	NM_022081.4	1030	ccttagcttatgagacigtct	127367	-	see also 8266 line
31372	INHBB	NM_002193.1	1230	cccgggtccgactactcttc	127395	-	see also 13729 line
31373	INHBB	NM_002193.1	1228	ctccgggtccgctactctct	127394	-	see also 13729 line
31374	SI00B	NM_006272.1	106	atcagcgtttccacaaatattc	127404	-	see also 13730 line
31375	SI00B	NM_006272.1	107	tcgacgtttccaccaattct	127405	-	see also 13730 line
31376	SI00B	NM_006272.1	325	tgcacaggtttcttgacatga	127409	-	see also 13730 line
31377	IPO7	NM_006391.1	856	atgacgcagctgagttaccatgg	127429	-	see also 4478 line
31378	IPO7	NM_006391.1	331	caggggatatccctctact	127410	-	see also 4478 line
31379	IPO8	NM_006390.1	977	agctcggctcttgacgatattg	127526	-	see also 13732 line
31380	IPO8	NM_006390.1	2073	atctgtacggatcattgatct	127558	-	see also 13732 line
31381	KPNB3	NM_002271.3	749	accgtcgatcaggacgttact	127601	-	see also 1466 line
31382	KPNB3	NM_002271.3	2659	caggctcgaagagtcactacaaga	127637	-	see also 1466 line
31383	RANBP2	NM_006267.3	9357	aggcgggataactatggaattat	127748	-	see also 4359 line
31384	RANBP2	NM_006267.3	8980	gagcgcgggtgtggagataaaa	127734	-	see also 4359 line
31385	RANBP2	NM_006267.3	3500	ttcggcgaagtgtatgatattt	127672	-	see also 4359 line
31386	RANBP3	NM_003624.1	880	cgccaacgcgaacgaactatttc	127764	-	see also 13735 line
31387	RANBP3	NM_003624.1	884	aaccgcaacgaactatttctcc	127765	-	see also 13735 line
31388	PLDN	NM_012388.2	293	gggagccgacgcctggtttaagt	127781	-	see also 13737 line
31389	PLDN	NM_012388.2	297	ggcgagccctgtttaagtga	127783	-	see also 13737 line
31390	STXBP2	NM_006949.1	270	gtcgttcaggccctgatcaaaag	127795	-	see also 13738 line
31391	STXBP2	NM_006949.1	304	accgcacttcaactacaagc	127797	-	see also 13738 line
31392	SNAPAP	NM_012437.3	286	ggcgagcgtgtgttggttaac	127816	-	see also 13739 line
31393	SNAPAP	NM_012437.3	247	tggatcttgacccctatttaag	127814	-	see also 13739 line
31394	NARF	NM_012336.2	126	cagcgcaagggaatgtagtaaga	127821	-	see also 5297 line
31395	NARF	NM_012336.2	124	tgcacgcgcaagggaatgtagtaa	127820	-	see also 5297 line
31396	NARF	NM_012336.2	128	cgcgaagggaatgtagtaagaaa	127822	-	see also 5297 line
31397	TMPO	NM_003276.1	1609	ctcactacttaggtctagaagt	127873	-	see also 13741 line
31398	TMPO	NM_003276.1	223	ggacccctcgtcctgcacaaaaga	127841	-	see also 13741 line
31399	NLGN2	NM_020795.2	1831	ggcacgcgtgagtgacaaactacc	127892	-	see also 13742 line
31400	NLGN2	NM_020795.2	525	agggaaggtccgctcacaaaaaaa	127882	-	see also 13742 line
31401	NLGN2	NM_020795.2	524	ggaggacgggtccgctcacaaaaaa	127881	-	see also 13742 line
31402	TNFRSF10 A	NM_003844.2	1287	ttgtatgcaatgctgatgaatg	127904	-	see also 13743 line
31403	A	NM_003844.2	640	caggaaacttccggaatgacaat	127896	-	see also 13743 line
31404	TNFRSF10 B	NM_003842.3	945	tgcacccgtagtcttgattgtgg	127913	-	see also 13744 line
31405	TNFRSF10 B	NM_003842.3	778	gtcaaggctcgtgattgtaracc	127911	-	see also 13744 line
31406	B	NM_003842.3	939	cacagttgcagccgtagtcttga	127912	-	see also 13744 line
31407	DCTN6	NM_006571.2	462	tgggcttctgttgcacacctaata	127931	-	see also 13745 line

図46 (続き)

887

31408	DCTN6	NM_006571.2	238	ggcgaagggaacctaataagaaga	127920	-	see also 13745 line
31409	GGA2	NM_015044.2	378	agcggaggggccaaatttggtt	127940	-	see also 13746 line
31410	GGA2	NM_015044.2	709	ctgcaaacgggttaatacaagaat	127949	-	see also 13746 line
31411	GGA3	NM_014001.2	554	tgcacacgttagaggaagttaac	127970	-	see also 13747 line
31412	GGA3	NM_014001.2	1700	ttcctgtgacagctacgataaa	127985	-	see also 13747 line
31413	GGA3	NM_014001.2	1703	ctgtgacagcctacgataaaac	127987	-	see also 13747 line
31414	APC	NM_000038.2	2442	gacacaaatcgacatgatgataa	128062	-	see also 7 line
31415	APC	NM_000038.2	8175	atgcctacccgtgggttggaaaa	128227	-	see also 7 line
31416	APCL	NM_005883.1	4690	atcaagctgtgcctcctctatca	128247	-	see also 13749 line
31417	APCL	NM_005883.1	7077	ccggggacgaacagtgatctacg	128252	-	see also 13749 line
31418	PKP1	NM_000299.1	326	tgcctgtggaacaaaagatgaaa	128259	-	see also 263 line
31419	PKP1	NM_000299.1	445	tcaatcagaggttcacatgatga	128262	-	see also 263 line
31420	PKP1	NM_000299.1	276	cgcttgccgtacgaatgcttc	128257	-	see also 263 line
31421	FRZB	NM_001463.2	1053	aaggatcagactcgttgtaaaaa	128287	-	see also 13751 line
31422	FRZB	NM_001463.2	1023	ttgggtggaagcctctatagctga	128286	-	see also 13751 line
31423	GFR	NM_012294.1	662	caacgtcgtcacactgttagatga	128306	-	see also 5262 line
31424	GFR	NM_012294.1	666	gtgtcaactgttagatgaat	128308	-	see also 5262 line
31425	GSE1L	NM_001316.2	393	ggcagatcgggtggccattaaagc	128329	-	see also 869 line
31426	CSE1L	NM_001316.2	582	ctccgtacagcacattcatt	128336	-	see also 869 line
31427	RBX1	NM_014248.2	69	gggcaagaagcgtttgaagtga	128419	-	see also 13754 line
31428	RBX1	NM_014248.2	73	aagaagcgtttgaagtgaaaa	128420	-	see also 13754 line
31429	AB028190	NM_014458.3	834	tcacagtgtgagctaaacgttcg	128452	-	see also 5686 line
31430	AB028190	NM_014458.3	195	atgcgaagtgtaaccaattcg	128426	-	see also 5686 line
31431	ABT1	NM_032548.2	1134	ccccggagcagcctatgatgtgc	128491	-	see also 9242 line
31432	ABT1	NM_032548.2	969	ctgtggccgctgactactcttc	128488	-	see also 9242 line
31433	ABT1	NM_145804.1	1235	gggtatgacgccactgatctag	128506	-	see also 13757 line
31434	ABT2	NM_145804.1	820	ccctccacacgctctactcttt	128500	-	see also 13757 line
31435	AKAP10	NM_007202.2	429	atggaggccgctcatttgggtga	128524	-	see also 5002 line
31436	AKAP10	NM_007202.2	392	tagcaggacagccacacttaaga	128521	-	see also 5002 line
31437	AKAP9	NM_005751.3	1456	agccagttcgaaactgatatagt	128589	-	see also 13759 line
31438	AKAP9	NM_005751.3	4376	ctgttgattcgttggtgaattaca	128644	-	see also 13759 line
31439	AMFR	NM_001144.3	975	gaggtgcaacgctcgaattcgtg	128832	-	see also 13760 line
31440	AMFR	NM_001144.3	1834	tcacgaagctcgcaaacgcttc	128851	-	see also 13760 line
31441	ANKFY1	NM_016376.2	807	ctcacgactggagagattg	128870	-	see also 13761 line
31442	ANKFY1	NM_016376.2	630	gagcgtcagttggtatacaaaa	128864	-	see also 13761 line
31443	ANKFY1	NM_016376.2	631	agcgtcagttggtatacaaat	128865	-	see also 13761 line
31444	ANXA11	NM_001157.2	1685	cacgaacatcgggagatacttc	128933	-	see also 13762 line
31445	ANXA11	NM_001157.2	967	gaagggttacggcaaggattga	128925	-	see also 13762 line
31446	APBA2	NM_005503.2	1288	acctcatgacgggcatcttt	128942	-	see also 3845 line
31447	APBA2	NM_005503.2	1290	ctcatcgacgggcatctttgc	128943	-	see also 3845 line
31448	APBA3	NM_004886.2	1811	ggcctatggcgggtgcatatca	128956	-	see also 13764 line
31449	APBA3	NM_004886.2	1287	ggcgtcgtccacccatcataatgg	128954	-	see also 13764 line
31450	APBA3	NM_004886.2	1728	cgggtcggccacccatcattga	128955	-	see also 13764 line
31451	APBB3	NM_006051.2	662	ctgggtatgggggaatcctaca	128959	-	see also 13765 line

図46 (続き)

888

31452	APBB3	NM_006051.2	1306	tgtctaacgaggccattggtacc	128963	-	see also 13765 line
31453	APP	NM_000484.1	1604	ggcctcgtcaagtggtcaaatg	128991	-	see also 377 line
31454	APP	NM_000484.1	1603	cggcctcgtcaagtggtcaaatg	128990	-	see also 377 line
31455	ARHGDIA	NM_004309.3	438	ttccggattaaaccgagagatagt	129087	-	see also 2884 line
31456	ARHGDIA	NM_004309.3	410	gggtgtggagtgaccggagataaaa	129084	-	see also 2884 line
31457	ASE-1	NM_012099.1	1225	tcctcgtccaccaccagaagaagg	129093	-	see also 13769 line
31458	ASE-1	NM_012099.1	1738	ctccacacatccaccagaagaag	129095	-	see also 13769 line
31459	AVEN	NM_020371.1	403	ctgggagtcgtatcaagatattg	129100	-	see also 13770 line
31460	AVEN	NM_020371.1	397	ctctaacctgggagtcgtatcaag	129098	-	see also 13770 line
31461	BAG1	NM_004323.2	698	tgggtgcgggctcatgtaattg	129119	-	see also 2894 line
31462	BAG2	NM_004282.2	436	accgtgaagtgctcagtagaag	129126	-	see also 13772 line
31463	BAG2	NM_004282.2	616	cagaagttccaatccatagtta	129132	-	see also 13772 line
31464	BAG3	NM_004281.2	1219	cccatgaccccatcgagaaactgc	129136	-	see also 2869 line
31465	BAG3	NM_004281.2	1542	agccggagctcccccacaaacatc	129138	-	see also 2869 line
31466	BAG4	NM_004874.2	729	ctcactacagggctctattatg	129150	-	see also 3387 line
31467	BAG4	NM_004874.2	1076	caccgggcaatctctcatgact	129157	-	see also 3387 line
31468	BAG5	NM_004873.1	694	tgcgggtcagaagataatogaaag	129194	-	see also 13774 line
31469	BAG5	NM_004873.1	1389	atcgaacccgataagaacacatc	129207	-	see also 13774 line
31470	BAI1	NM_001702.1	3408	agggtacagcaccatgaactact	129223	-	see also 1114 line
31471	BAI1	NM_001702.1	3407	agggtacagcaccatgaactact	129222	-	see also 1114 line
31472	BCL10	NM_003921.2	1375	ccttaagatcaagctactgttc	129245	-	see also 13776 line
31473	BCL10	NM_003921.2	760	gacgcttagaataattacgtgt	129226	-	see also 13776 line
31474	BCL2L10	NM_020396.2	219	ggcagattaccggctcttttc	129246	-	see also 13777 line
31475	BCL2L10	NM_020396.2	620	ttgttaacacacagcctcttcta	129249	-	see also 13777 line
31476	BCL6B	NM_181844.2	1227	acgtgcgctcgtcgtcttgtaca	129259	-	see also 10257 line
31477	BCL6B	NM_181844.2	654	aagtacatcgtgcttaactctca	129254	-	see also 10257 line
31478	BTBD1	NM_025238.1	1121	gacgagtgatcgtaactcagttca	129284	-	see also 13779 line
31479	BTBD1	NM_025238.1	1013	ccttaaaccccgagtgtaataca	129280	-	see also 13779 line
31480	BTBD11	NM_152322.1	751	gacgtggccatcagaattcagt	129306	-	see also 13780 line
31481	BTBD11	NM_152322.1	350	ctctccagcaagccgacaaatga	129286	-	see also 13780 line
31482	BTBD12	NM_032444.1	2660	tgttaatcggaagaagaacttgc	129337	-	see also 13781 line
31483	BTBD12	NM_032444.1	1108	cgcacccgtgcgctctctattg	129321	-	see also 13781 line
31484	BTBD14A	NM_144653.2	1671	aactgacgcccgtgaattgtgacc	129346	-	see also 9726 line
31485	BTBD14A	NM_144653.2	486	cggcaccgacccatcagttcaagg	129341	-	see also 9726 line
31486	BTBD14B	NM_052876.2	1191	gtctctccggctggaactatca	129349	-	see also 13783 line
31487	BTBD14B	NM_052876.2	1475	tgtctcacgctgtcgaagtactac	129351	-	see also 13783 line
31488	BTBD14B	NM_052876.2	1058	accggcagatcgcaacatgtac	129347	-	see also 13783 line
31489	BTBD2	NM_017797.2	1245	caccgactaccagtgaaacatcc	129362	-	see also 13784 line
31490	BTBD2	NM_017797.2	1062	gccacagtggtgagtttaattgacc	129360	-	see also 13784 line
31491	BTBD3	NM_014962.2	1368	tcgggggttaactcaactcaatga	129390	-	see also 13785 line
31492	BTBD3	NM_014962.2	1328	cacaatggccctcgatgattttg	129385	-	see also 13785 line
31493	BTBD5	NM_017658.1	738	ttcgtgatgatcgactgttaaa	129428	-	see also 7085 line
31494	BTBD5	NM_017658.1	166	tgcacgctcagcccgatttca	129405	-	see also 7085 line
31495	BTBD6	NM_033271.1	397	gtcggcagctcgtctcttctatgc	129434	-	see also 13787 line

図46 (続き)

889

31496	BTBD6	NM_033271.1	1336	caccgggtccaggttgacaaga	129438	-	see also 13787 line
31497	BTBD6	NM_033271.1	433	gacctggcgggaagtcacaatcga	129435	-	see also 13787 line
31498	BTBD9	NM_152733.1	1135	accggatagccggctctactca	129470	-	see also 9935 line
31499	BTBD9	NM_152733.1	1066	ggcttccggcatcgagattaaag	129486	-	see also 9935 line
31500	C16orf44	NM_024731.2	181	tacaagatcagcgaatcatcaaa	129505	-	see also 13789 line
31501	C16orf44	NM_024731.2	165	ggcaggtctctggccatcaaga	129503	-	see also 13789 line
31502	C3IP1	NM_021633.2	862	atgtcggatgcacctactaac	129529	-	see also 8156 line
31503	C3IP1	NM_021633.2	1143	atcacctgaaggaagcttatgt	129537	-	see also 8156 line
31504	C6orf46	NM_181842.1	227	cgcaacgctcgggaacatgaacc	129547	-	see also 10256 line
31505	C6orf46	NM_181842.1	226	cgcaacgctcgggaacatgaac	129546	-	see also 10256 line
31506	CALB1	NM_004929.2	611	agcggatatacagacctaagc	129564	-	see also 3428 line
31507	CALB1	NM_004929.2	622	cagacctaatcgtgaactattt	129565	-	see also 3428 line
31508	CALM1	NM_006888.2	519	tagctcagctcagcaaaccta	129581	-	see also 13793 line
31509	CALM1	NM_006888.2	516	aactacgtcacgtcatgacaaac	129580	-	see also 13793 line
31510	CARD10	NM_014550.2	1854	accagatggactcgttttatg	129593	-	see also 5752 line
31511	CARD10	NM_014550.2	1853	gaccagatggactcgttttat	129592	-	see also 5752 line
31512	CARD11	NM_032415.2	3197	ggctgtatcggcctctactcgc	129625	-	see also 9185 line
31513	CARD11	NM_032415.2	3396	coccaacggctcgaatgcacgc	129627	-	see also 9185 line
31514	CARD11	NM_032415.2	2086	ggcgggttgacgccttagatct	129617	-	see also 9185 line
31515	CARD14	NM_024110.2	1911	ggcgttcacggggatgcattgc	129637	-	see also 13796 line
31516	CARD14	NM_024110.2	1750	ggcgaccacacacgtgattaga	129636	-	see also 13796 line
31517	CBLB	NM_170682.2	2654	ggcgcctctgattatgattcttc	129708	-	see also 13797 line
31518	CBLB	NM_170682.2	2456	tcctgttcgtctgtatgataatg	129699	-	see also 13797 line
31519	CBLB	NM_012116.2	1223	ggcgtcggggcggcggagatct	129725	-	see also 13798 line
31520	CBLB	NM_012116.2	701	atggccaacactcctcagaact	129723	-	see also 13798 line
31521	CCIN	NM_005893.1	1078	ctctcgtcgtcgtacatcaaca	129757	-	see also 13799 line
31522	CCIN	NM_005893.1	651	ggcgcctcgtcgtcgtatgaaac	129742	-	see also 13799 line
31523	CD2	NM_001767.2	473	ccgaattaaacctgtatcaaga	129793	-	see also 13800 line
31524	CD2	NM_001767.2	307	gaccgatcaggtatctaca	129786	-	see also 13800 line
31525	CD244	NM_016382.1	968	gacaatttacgaagatgtcaagg	129821	-	see also 6846 line
31526	CD244	NM_016382.1	498	ctggagggtcacccagtatatctgg	129810	-	see also 6846 line
31527	CD28	NM_006139.1	715	tgctatagctcgtagtacaagt	129840	-	see also 13802 line
31528	CD28	NM_006139.1	339	ctgcaagtattcctcaactctct	129833	-	see also 13802 line
31529	CD32	NM_000734.2	163	ggcaagttgccgattacagagg	129844	-	see also 13803 line
31530	CD32	NM_000734.2	321	agggccaggaaccagctctataac	129845	-	see also 13803 line
31531	CD48	NM_001778.2	305	tgccgcaactgtacatctcaagg	129857	-	see also 13804 line
31532	CD48	NM_001778.2	685	cccgctccttggagtagaagg	129865	-	see also 13804 line
31533	CD58	NM_001779.1	458	ggcctcggaggacttataatgtac	129885	-	see also 13805 line
31534	CD58	NM_001779.1	500	agcaatgtaaacgtactcaacc	129889	-	see also 13805 line
						receptor_activity, signal_transduction	
31535	CD8A	NM_001768.4	747	aaccgaagcgtgttggcaaatg	129898	-	kinase_related
31536	CD8A	NM_001768.4	748	accgaagcgtgttggcaaatg	129899	-	see also 31535 line
31537	CD8B1	NM_004931.2	338	aagccggttcattctcaatctca	129904	-	see also 13806 line

diabetes(糖尿病)

図46 (続き)

890

31538	CD8B1	NM_004931.2	334	atcaagccgggttoatttcaat	129903	-	see also 13808 line
31539	CD37	NM_007065.3	748	accagacaatcgtcatcaatt	129918	-	see also 13807 line
31540	CD37	NM_007065.3	1217	tccaagacggcgataggaagg	129925	-	see also 13807 line
31541	CHC1L	NM_001268.2	1631	ttcgtcattggagataacagg	129930	-	see also 828 line
31542	CHC1L	NM_001268.2	615	gagctccagagcaccattgaacc	129926	-	see also 828 line
31543	CIB1	NM_006384.2	368	cagccacgcccagacatcaagtcc	129968	-	see also 13808 line
31544	CIB1	NM_006384.2	153	agccaacagcggattttgagc	129965	-	see also 13808 line
31545	CKN1	NM_000082.1	158	tccacggcggtggatttaacacc	129972	-	see also 13809 line
31546	CKN1	NM_000082.1	618	gtctccacgttatgactatatct	129988	-	see also 13809 line
31547	CKTSF1B1	NM_013372.4	589	gtcgttcattccatcatttgg	130016	-	see also 13810 line
31548	CKTSF1B1	NM_013372.4	590	tctgttcattccatcatttgg	130017	-	see also 13810 line
31549	CLSPN	NM_022111.2	3744	gccagtcgccctatggtattca	130088	-	see also 8273 line
31550	CLSPN	NM_022111.2	954	gagactcagcgccctattcgaga	130030	-	see also 8273 line
31551	CNK1	NM_006314.1	1145	gtcctgttggctcggaggaatca	130102	-	see also 13812 line
31552	CNK1	NM_006314.1	348	tgcacagcccccattatgattcc	130101	-	see also 13812 line
31553	CRHBP	NM_001882.2	94	atgtgcccacacttcaaatcca	130106	-	see also 13813 line
31554	CRHBP	NM_001882.2	763	cacgtaaatggtcttcaagttaa	130126	-	see also 13813 line
31555	CR1	NM_014335.1	493	atggcgggtttcaatgatttat	130135	-	see also 13814 line
31556	CR1	NM_014335.1	523	ccccgttgatcagttagtttt	130138	-	see also 13814 line
						signal transduction	
31557	CTNBP1	NM_020248.1	303	tccggaggaggatgtacattcagc	130143	-	transcription regulat
31558	DAG1	NM_004393.1	1509	ctcgaggcgccattattcaaac	130157	-	see also 13815 line
31559	DAG1	NM_004393.1	1507	gactcaggagccattattcaaa	130156	-	see also 13815 line
31560	DBT	NM_001918.1	1295	ggccattcccgagtttaaccaga	130197	-	see also 13816 line
31561	DBT	NM_001918.1	1324	aagtataaggcacagataatg	130198	-	see also 13816 line
31562	DLG5	NM_004747.2	1969	gacaggatcgttggatcaatgg	130340	-	see also 13817 line
31563	DLG5	NM_004747.2	572	acgggtcaccgagattctcaac	130326	-	see also 13817 line
31564	DLGAP2	NM_004745.3	2300	tacacggaggagaaactgtacg	130392	-	see also 13818 line
31565	DLGAP2	NM_004745.3	2138	ggaaagcgcacacggagctttta	130388	-	see also 13818 line
31566	DLGAP2	NM_004745.3	2543	aacgacctctcggaggaaattct	130395	-	see also 13818 line
31567	DMN	NM_015286.4	2278	aagtcagccggagcagatagagg	130431	-	see also 13819 line
31568	DMN	NM_015286.4	2553	cacgactcacgtggagaaagtgga	130435	-	see also 13819 line
31569	DMXL1	NM_005509.3	2478	aacatcgtcagtcacacataaac	130533	-	see also 13820 line
31570	DMXL1	NM_005509.3	157	agcgttcacggcttattgaat	130467	-	see also 13820 line
31571	DMXL1	NM_005509.3	4914	gtccggaataccgcatcttaag	130619	-	see also 13820 line
31572	DNCL2B	NM_130897.1	220	ttgacacactcaacactgttaa	130775	-	see also 9555 line
31573	DNCL2B	NM_130897.1	323	ttcttaggatcagatcaagaaa	130778	-	see also 9555 line
						signal transduction	
31574	DOK1	NM_001381.2	1406	gacttgaggctctctagattagg	130780	-	kinase related
31575	DOK2	NM_003974.1	1014	ccctgacctgaccacatatacg	130791	-	see also 2720 line
31576	DPT	NM_001937.3	387	tggatccggaggagtgccagttttac	130806	-	see also 13824 line
31577	DPT	NM_001937.3	65	tgggcccagatggcattatagg	130800	-	see also 13824 line
31578	DRE1	NM_017644.2	471	ttcgtgataggccgcttattcaca	130830	-	see also 7070 line

891

図46 (続き)

31579	DRE1	NM_017644.2	1156	agcaagacgggtaccacatacttg	130853	-	see also 7070 line
31580	DRPLA	NM_001940.2	2115	ccccaccgtacggaagagagagc	130898	-	see also 1238 line
31581	DRPLA	NM_001940.2	2372	ggcgccacgagatcaaacacagg	130901	-	see also 1238 line
31582	DTNA	NM_001390.2	1151	agctgactaatgacattaagcaag	130928	-	see also 13827 line
31583	DTNB	NM_021907.3	361	agcctgcaaatcagattgtac	130961	-	see also 8186 line
31584	DTNB	NM_021907.3	1255	tccctgcctctgactaatga	130994	-	see also 8186 line
31585	EMILIN1	NM_007046.1	1588	ggcaagctggaggattacaaga	130999	-	see also 13829 line
31586	EMILIN1	NM_007046.1	2037	ggcaaccaagaccgtatcatt	131002	-	see also 13829 line
31587	EMILIN2	NM_032048.1	1749	agggagatgaacgggtcatgatgg	131031	-	see also 9073 line
31588	EMILIN2	NM_032048.1	1662	ggggagcgttctctacagatga	131030	-	see also 9073 line
31589	ENG	NM_000118.1	1447	acggcatgacctggtactaaag	131054	-	see also 13831 line
31590	ENG	NM_000118.1	2173	ctgcactctggtacatctactcg	131058	-	see also 13831 line
31591	ESPL1	NM_012291.3	1050	caccaagaggcgtatagacttg	131076	-	see also 13832 line
31592	ESPL1	NM_012291.3	6296	ctccccgactcaagtacttatt	131142	-	see also 13832 line
31593	EV15	NM_005665.2	1632	cgccacttagctgactactagg	131163	-	see also 3930 line
31594	EV15	NM_005665.2	1707	ctgatgaccattcgacttagaga	131184	-	see also 3930 line
31595	FB11	NM_015898.2	579	ctggacctgtatagatcaaatga	131202	-	see also 13834 line
31596	FB11	NM_015898.2	1198	tggactactcctgaagtacttc	131203	-	see also 13834 line
31597	FBXL2	NM_012157.2	848	tccggagctgcaaatitggagg	131228	-	see also 13835 line
31598	FBXL2	NM_012157.2	843	aactgtccgactgcaaatit	131226	-	see also 13835 line
31599	FBXL2	NM_012157.2	914	agctcgcaattgccaagaattgg	131234	-	see also 13835 line
31600	FLJ10572	NM_018143.1	471	agccgtaatgagtagatgata	131244	-	see also 7277 line
31601	FLJ10572	NM_018143.1	544	ggcgacagttcctactcattcg	131247	-	see also 7277 line
31602	FLJ11078	NM_018316.1	214	ctcgatgtgtcgtactataa	131286	-	see also 13837 line
31603	FLJ11078	NM_018316.1	1752	ggcgatcgtacaggtgatacaaa	131291	-	see also 13837 line
31604	FLJ12587	NM_022480.2	310	cgctctagccgctatttgggg	131294	-	see also 8402 line
31605	FLJ12587	NM_022480.2	308	ggcgctctagccgctatttga	131293	-	see also 8402 line
31606	FLJ12587	NM_022480.2	1720	tccgggcaacaagctctatgtgg	131295	-	see also 8402 line
31607	FLJ13057	NM_178439.3	864	agcaggacctatggattagatt	131300	-	see also 13839 line
31608	FLJ13057	NM_178439.3	861	atcagcaggacctatggattag	131299	-	see also 13839 line
31609	FLJ13063	NM_024742.1	1679	agcgcatggcaccctcgtattgt	131305	-	see also 8721 line
31610	FLJ13063	NM_024742.1	1681	cgatggcaccctcgtattgtgg	131306	-	see also 8721 line
31611	FLJ14360	NM_032775.2	1146	tgcctcaacaactcgtacttg	131328	-	see also 13841 line
31612	FLJ14360	NM_032775.2	390	acgggtgtctctacaatgctatg	131315	-	see also 13841 line
31613	FLJ13322	NM_152387.1	310	acgggtgtgacgctctttaa	131343	-	see also 9847 line
31614	FLJ13322	NM_152387.1	309	gaccgtgtgacgctctttaa	131342	-	see also 9847 line
31615	FMOD	NM_002023.2	325	tgttctctcccgatgaagat	131362	-	see also 13843 line
31616	FMOD	NM_002023.2	282	acggcactgtactgtgacatgg	131361	-	see also 13843 line
31617	FYB	NM_001465.2	2430	gggttacttagcggacaatgatg	131398	-	see also 13844 line
31618	FYB	NM_001465.2	1815	aagggttacttagcctattata	131381	-	see also 13844 line
31619	GIP2	NM_005101.1	506	ccttgagcaccgtgtcatgaat	131402	-	see also 13845 line
31620	GIP2	NM_005101.1	504	gccccgtgacacgtgttcatga	131401	-	see also 13845 line
31621	GAB1	NM_002039.1	2000	tacttagatctgacttagattc	131445	-	see also 13846 line
31622	GAB1	NM_002039.1	281	aagaagccttattcgtatttga	131404	-	see also 13846 line

892

図46 (続き)

31623	GAN	NM_022041.2	1768	gactacgtggtgagtttaaaag	131503	-	see also 13847 line
31624	GAN	NM_022041.2	1644	aaggtggtatctatctaagacc	131497	-	see also 13847 line
31625	GDF5	NM_000557.2	327	tcccaaaactctcaactttcttg	131506	-	see also 408 line
31626	GMCL	NM_022471.2	767	tgcgattattacacacagtaga	131515	-	see also 13849 line
31627	GMCL	NM_022471.2	241	ggcggagtacaggtctgttact	131514	-	see also 13849 line
31628	GMRP-1	NM_032320.3	980	tccgagcgattctgattactat	131523	-	see also 9154 line
31629	GRF2	NM_005312.2	3225	tgcggagaaacagacattata	131590	-	see also 13850 line
31630	GRF2	NM_005312.2	1567	ggcgcatccctcgagtagaca	131559	-	see also 13850 line
31631	GF3C2	NM_001621.1	1963	gaccttgagctccttaagaac	131621	-	see also 1045 line
31632	GF3C2	NM_001521.1	2179	tccgactgcttgaggacaatgc	131627	-	see also 1045 line
31633	HAT1	NM_003642.1	1015	cacgctagaagggttatgaat	131677	-	see also 2459 line
31634	HLA-DMA	NM_006120.2	649	tgcatttgactcaagaatga	131697	-	see also 13853 line
31635	HLA-DMA	NM_006120.2	648	ctgcatttgactcaggaattg	131696	-	see also 13853 line
31636	HOMER1	NM_004272.2	520	ggcaaacacccgttatgattgg	131707	-	see also 13854 line
31637	HOMER1	NM_004272.2	690	ctccttaaacaccggaagtgc	131708	-	see also 13854 line
31638	HOMER3	NM_004838.2	230	ggcgacgctgtccaaatgaac	131717	-	see also 13855 line
31639	HOMER3	NM_004838.2	688	cagagcgcgagcggctaaagaag	131719	-	see also 13855 line
31640	HSPB2	NM_001541.2	89	gcaacccgagtagcaaatggc	131725	-	see also 13856 line
31641	HSPB2	NM_001541.2	88	ggccacccgagtagcaaatgg	131724	-	see also 13856 line
31642	HUMGT19	NM_013290.3	345	tacggcaagcagaagatctatt	131732	-	see also 13857 line
31643	HUMGT19	NM_013290.3	552	aacattaaagcagctaccaatca	131735	-	see also 13857 line
31644	HUMGT19	NM_013290.3	314	ggcgcaacaaggcaagatcaaaag	131731	-	see also 13857 line
31645	HYPE	NM_007076.1	1329	ggcgacgtgagcctttcattcg	131743	-	see also 13858 line
31646	HYPE	NM_007076.1	1348	ttcgcttcacgcgaagtgtact	131744	-	see also 13858 line
31647	IF35	NM_005533.2	839	ctcggtagctggtctcaacattc	131748	-	see also 13859 line
31648	IF35	NM_005533.2	601	tggacaagctagagatctcttt	131746	-	see also 13859 line
31649	INADL	NM_005799.2	4153	agcgacccgaacactattagtag	131849	-	see also 13860 line
31650	INADL	NM_005799.2	3887	accgatcacgcatgagcatattt	131843	-	see also 13860 line
31651	INHA	NM_002191.2	1171	acctggatggaggttactcttt	131886	-	see also 1398 line
31652	INHA	NM_002191.2	1173	ctcggatggaggttactcttca	131887	-	see also 1398 line
31653	INHBA	NM_002192.1	1142	gagtgccagagccatatagcagg	131901	-	see also 13862 line
31654	INHBA	NM_002192.1	330	cgtctctgaacgcgcatcagaag	131894	-	see also 13862 line
31655	IRS1	NM_005544.1	2239	ctctccacggcgctagtatgc	131910	-	see also 13863 line
31656	IRS1	NM_005544.1	2453	cccccaacgctacacatttg	131916	-	see also 13863 line
31657	IRS1	NM_005544.1	1659	ctgtggccactcggaatacttct	131908	-	see also 13863 line
31658	ISLR	NM_005545.2	1203	tgccaatggcagcctgcttatcc	131935	-	see also 3861 line
31659	ITGB1	NM_002211.2	1585	ggcgctgcagctgcaatgaagg	131955	-	see also 13865 line
31660	ITGB1	NM_002211.2	476	agcagtggttttgcgattaga	131942	-	see also 13865 line
31661	ITGB1BP2	NM_012278.1	156	tgcgaaagcgaactgtatgttt	131992	-	see also 5253 line
31662	ITGB1BP2	NM_012278.1	157	gcccgaagcggaactgtatgttc	131993	-	see also 5253 line
31663	IVNS1ABP	NM_006469.2	993	ctcccgatttgaataaaggttg	132027	-	see also 4537 line

図46 (続き)

31664	IVNS1ABP	NM_006469.2	1700	ttggaacagtcgaatgctataat	132040	-	see also 4537 line
31665	KBTD3	NM_152433.2	1238	ctgcataatgccgagtcataca	132096	-	see also 9863 line
31666	KBTD3	NM_152433.2	1225	tcgaacgggttcgactgcattg	132095	-	see also 9863 line
31667	KBTD4	NM_016506.3	1566	ctgtaacgggagcactatgtct	132149	-	see also 6881 line
31668	KBTD4	NM_016506.3	1585	gtcttcgggagccgataataaaa	132151	-	see also 6881 line
31669	KBTD5	NM_152393.1	376	ggcgagcgtcgaggatttggcg	132154	-	see also 13870 line
31670	KBTD5	NM_152393.1	375	aggcgagcgtcgaggatttggc	132153	-	see also 13870 line
31671	KBTD6	NM_152903.1	1699	cagtaaacgcatgtctgttatg	132162	-	see also 13871 line
31672	KBTD6	NM_152903.1	1703	aagcgcattgttgaatgacc	132163	-	see also 13871 line
31673	KBTD7	NM_032138.3	1942	aggcggattagtaattcttt	132185	-	see also 13872 line
31674	KBTD7	NM_032138.3	1939	tggaggcgggattagtaattcc	132184	-	see also 13872 line
31675	KCN1	NM_000217.1	1325	gtcgccgagttcctactatg	132208	-	see also 13873 line
31676	KCN1	NM_000217.1	1285	cacgtcagttcccttaactagc	132207	-	see also 13873 line
31677	KCN1	NM_000217.1	1180	atcgttggtgtctaacaattgc	132205	-	see also 13873 line
31678	KCN10	NM_005549.2	1372	gocgagtcgccaacagacatgt	132227	-	see also 13874 line
31679	KCN10	NM_005549.2	578	tccaagcttcgggagactatgc	132215	-	see also 13874 line
31680	KCN2	NM_004974.2	1374	tcgtgtcatccgggttgtaaga	132238	-	see also 3464 line
31681	KCN2	NM_004974.2	1383	tcggattggttaagagtottagg	132240	-	see also 3464 line
31682	KCN2	NM_004974.2	1631	gacatggttcggactaccattgg	132245	-	see also 3464 line
31683	KCN3	NM_002232.2	1025	ctgcgcgtcgagactcattcg	132256	-	see also 1425 line
31684	KCN3	NM_002232.2	1887	actgcacacagacaataatcc	132266	-	see also 1425 line
31685	KCN4	NM_002233.2	2309	ttgtggttcgtctgttctgt	132280	-	see also 1427 line
31686	KCN4	NM_002233.2	2000	ccctcccgagaaatgaattaa	132277	-	see also 1427 line
31687	KCN5	NM_002234.2	588	agcgggtccacataacatctcc	132289	-	see also 13877 line
31688	KCN5	NM_002234.2	585	accagcgttcacatcaacatc	132288	-	see also 13877 line
31689	KCN6	NM_002235.2	2064	gacgatgacgttgctttttcc	132295	-	see also 1433 line
31690	KCN6	NM_002235.2	988	agcgggtggtgatcaatctcc	132291	-	see also 1433 line
31691	KCN7	NM_031886.2	1363	accgggtgagctccatttccat	132307	-	see also 13879 line
31692	KCN7	NM_031886.2	1046	ctgtccaagcaagctatctct	132300	-	see also 13879 line
31693	KCNB1	NM_004975.2	1069	tgcgaattctccgcatccttaag	132321	-	see also 3468 line
31694	KCNB1	NM_004975.2	2167	agctccgagcactaaagtaaac	132336	-	see also 3468 line
31695	KCNB2	NM_004770.2	1957	gccttcgctcgaaataggaact	132384	-	see also 13881 line
31696	KCNB2	NM_004770.2	2004	cggagagtcgcccaacacaaagg	132388	-	see also 13881 line
31697	KCN1	NM_004976.2	213	cccgctgctgacgagttctct	132403	-	see also 3470 line
31698	KCN1	NM_004976.2	864	ctgcaccaacagtagagattca	132407	-	see also 3470 line
31699	KCN2	NM_139136.2	1663	tactttcgagctagtactaatg	132431	-	see also 13883 line
31700	KCN2	NM_139136.2	1668	ttcgagctagtactaatgatt	132432	-	see also 13883 line
31701	KCN2	NM_139136.2	1622	aagctcacccgcatctttagg	132428	-	see also 13883 line
31702	KCN3	NM_004977.2	553	cagcgccaagatcgtgatcaacg	132461	-	see also 13884 line
31703	KCN3	NM_004977.2	1287	gggcaactccggagaaatcacc	132464	-	see also 13884 line
31704	KCN4	NM_004978.2	924	tctccgcgtagggaacatcacc	132471	-	see also 3471 line
31705	KCN1	NM_004979.3	1844	caaccgacccctgttttact	132483	-	see also 13886 line
31706	KND1	NM_004979.3	1846	cgcgacccctgttttactat	132484	-	see also 13886 line
31707	KND1	NM_004979.3	1841	gagcaaccgagccctgtttct	132482	-	see also 13886 line

図46 (続き)

894

31708	KCON2	NM_012281.2	2426	aaccacgaatcacagattgtgg	132515	-	see also 5255 line
31709	KCON2	NM_012281.2	1718	gcctagtcgttaccgctttgtgc	132495	-	see also 5255 line
31710	KCON3	NM_004980.3	2115	ctgtctccgtctagtagaaga	132535	-	see also 3473 line
31711	KCON3	NM_004980.3	1777	gccaaaacaggcaggttcgaatgc	132529	-	see also 3473 line
31712	KCNF1	NM_002236.4	706	cggcaagcgcaggtctactttg	132544	-	see also 13889 line
31713	KCNF1	NM_002236.4	705	cggcaagcgcaggtctactttt	132543	-	see also 13889 line
31714	KCON1	NM_002237.2	4	acccttaccgggagagacaatc	132548	-	channel
31715	KCON1	NM_002237.2	330	cactgcacgcagcttctcttcg	132549	-	see also 31714 line
31716	KCON2	NM_012283.1	746	cgcactcaacatcatagacatc	132552	-	channel
31717	KCON2	NM_012283.1	585	aagccgggaacacacaaagctttt	132553	-	see also 13891 line
31718	KCON3	NM_173605.1	280	aagatattcacgcacaggttttc	132556	-	see also 13891 line
31719	KCON3	NM_173605.1	327	togttggcacgcagcttagatg	132559	-	see also 13891 line
31720	KCON1	NM_002251.3	1279	gcccagtagcgcgcaactctctt	132582	-	see also 13892 line
31721	KCON1	NM_002251.3	1278	cgcacagtagcgcgcaactcttc	132581	-	see also 13892 line
31722	KCON3	NM_002252.3	1717	agcggatgcacacacccattacc	132611	-	see also 1448 line
31723	KCON3	NM_002252.3	1252	tactacggcttatgaggatttc	132601	-	see also 1448 line
31724	KCON1	NM_014379.2	1397	ttctatccgtgggaactctata	132630	-	see also 13894 line
31725	KCON1	NM_014379.2	1296	ggctctgcgcagctgctaaagctgg	132624	-	see also 13894 line
31726	KCON1	NM_031954.2	624	aaccgaaaggctctgttctataaa	132657	-	see also 13895 line
31727	KCON1	NM_031954.2	767	tccgaaagcccggtatttagagg	132661	-	see also 13895 line
31728	KCON1	NM_138444.2	988	ttggagacacccctgaacgaagc	132663	-	see also 13896 line
31729	KCON1	NM_138444.2	252	gcggacagcacacgtggtattacc	132662	-	see also 13896 line
31730	KCON1	NM_178863.2	1150	ctcatggccaacaattgtcttc	132674	-	see also 10225 line
31731	KCON1	NM_023930.2	691	ctgacgtaccaccacaaagaaa	132684	-	see also 13898 line
31732	KCON1	NM_023930.2	318	ggctcagttctcgaataaagc	132676	-	see also 13898 line
31733	KCON1	NM_024076.1	492	caggataagccgcctcttcaatg	132686	-	see also 13899 line
31734	KCON1	NM_024076.1	560	ttgacccgggtagggagatttc	132688	-	see also 13899 line
31735	KCON1	NM_016121.2	1407	aagtcgtaacaaaatacatgc	132726	-	see also 13900 line
31736	KCON1	NM_016121.2	1329	agcagtaagcgtgattgtacac	132721	-	see also 13900 line
31737	KCON1	NM_018992.1	711	cccagcgaagggcccaagatttt	132770	-	channel
31738	KCON1	NM_018992.1	427	aagcagaattttacaatacacc	132767	-	see also 31737 line
31739	KCON1	NM_018992.1	444	atcacctcattataaaaacttgt	132768	-	see also 31737 line
31740	KCON1	NM_153331.2	585	tcgatatgtctcactcttcta	132780	-	see also 9986 line
31741	KCON1	NM_153033.1	916	acctcgtgaaccactactatgc	132808	-	see also 9974 line
31742	KCON1	NM_153033.1	256	ctggaggtgtcccttaacatc	132802	-	see also 9974 line
31743	KEAP1	NM_012289.2	1547	gacgggacaaaccgccttaattc	132812	-	see also 13902 line
31744	KEAP1	NM_012289.2	1652	gtcctgcacacgttatctatgc	132816	-	see also 13902 line
31745	KIAA0469	NM_014851.1	1584	ctctaaacggactcatgtacttt	132823	-	see also 13903 line
31746	KIAA0469	NM_014851.1	1648	gaggaagaatgggacaagatcc	132825	-	see also 13903 line
31747	KIAA0711	NM_014867.1	2451	ggctctgcagcggctcatctacc	132831	-	see also 13904 line
31748	KIAA0711	NM_014867.1	2322	cacctgcacggcgagatctacg	132828	-	see also 13904 line
31749	KIAA0795	NM_025010.1	1156	cacgtgcagcccgacacacaca	132840	-	see also 13905 line
31750	KIAA0795	NM_025010.1	633	tgcattggcctgggtcagatag	132832	-	see also 13905 line
31751	KIAA1309	NM_033495.1	477	gagcaaaagtcggtctaaagaaa	132846	-	see also 9428 line

図46 (続き)

895

31752	KIAA1309	NM_033495.1	1152	ggcccatgagtggaatcgttag	132861	-	see also 9428 line
31753	KIAA1354	NM_018847.1	552	tgccatttgacgcttgaagg	132876	-	see also 13907 line
31754	KIAA1354	NM_018847.1	607	cacagctcggtggtattgcaagg	132879	-	see also 13907 line
31755	KIAA1354	NM_018847.1	575	caggaaacacacgctttttacc	132877	-	see also 13907 line
31756	KIAA1900	NM_052904.1	1929	accagtgacacggtgtaatttc	132916	-	see also 13908 line
31757	KIAA1900	NM_052904.1	1889	atcctgtgcgcctatatagattc	132911	-	see also 13908 line
31758	KIP2	NM_006383.1	249	tgtgaggggaacctcaacttca	132923	-	see also 13909 line
31759	KIP2	NM_006383.1	30	caccgaagagcagctagacaaat	132921	-	see also 13909 line
31760	KLHL6	NM_130446.1	121	gacgcgggactctctcttaattct	132930	-	see also 13910 line
31761	KLHL6	NM_130446.1	1476	ggccgtggaggaagtaaatgcata	132955	-	see also 13910 line
31762	KLHL8	NM_020803.3	789	gtcaaatcgaatagacttaattg	132983	-	see also 13911 line
31763	KLHL8	NM_020803.3	1029	tgcatttggccggttgatttt	132996	-	see also 13911 line
31764	KNTC1	NM_014708.2	348	tagcagacaaatcagtataattg	133045	-	see also 13912 line
31765	KNTC1	NM_014708.2	3421	atgcagcagactgttaagtatc	133134	-	see also 13912 line
31766	KPNA1	NM_002284.1	520	ttcttctcagacccgaatttga	133261	-	see also 1450 line
31767	KPNA1	NM_002284.1	65	gagaactttgcctgaaaagtta	133247	-	see also 1450 line
31768	KPNA1	NM_002284.1	920	gtcatcgtatcgaggagtattgag	133269	-	see also 1450 line
31769	LCP2	NM_005585.2	389	gggtgcgatttcagaaagta	133295	-	see also 13914 line
31770	LCP2	NM_005585.2	1068	accacgcgacacggaagacatg	133302	-	see also 13914 line
31771	LGALS3B	NM_005567.2	810	tacttctaccggaaggattga	133318	-	see also 13915 line
31772	LGALS3B	NM_005567.2	604	ccctggccagatcttgacagc	133316	-	see also 13915 line
31773	LMD1	NM_014240.1	1406	ctcacccgaagctgattacttt	133334	-	see also 13916 line
31774	LMD1	NM_014240.1	1408	caccgaagctgattactttgg	133335	-	see also 13916 line
31775	LIN7A	NM_004664.1	718	gtggatatacccccaaaagtct	133356	-	see also 13917 line
31776	LIN7A	NM_004664.1	356	ttcgagaggtgtataaatatag	133348	-	see also 13917 line
31777	LIN7A	NM_004664.1	751	gaggtcgtcttgaagaactacg	133357	-	see also 13917 line
31778	LMNA	NM_005572.2	556	agctgaagcggcgcaatcacaag	133359	-	see also 13918 line
31779	LMNA	NM_005572.2	1444	gtggggggcagcgtcaccaaaag	133360	-	see also 13918 line
31780	LOC92799	NM_138392.1	360	gaggagtggatagatctcttg	133368	-	see also 13919 line
31781	LOC92799	NM_138392.1	174	cgcattctgaagcgtgaagatga	133366	-	see also 13919 line
31782	LRP6	NM_002336.1	1223	ggccatacgcgttctattatag	133424	-	see also 1499 line
31783	LRP6	NM_002336.1	1508	tgttctgaaccgtgtgatttgg	133433	-	see also 1499 line
31784	LRPAP1	NM_002337.1	278	gacgaactcgcctggaagaact	133555	-	see also 13921 line
31785	LRPAP1	NM_002337.1	248	ctcacgcgtgactgaagataca	133554	-	see also 13921 line
31786	LTBP2	NM_000428.1	2285	gggaacggaggtgtgaaatacc	133565	-	see also 333 line
31787	LTBP2	NM_000428.1	2176	gctcccccggattgagaatag	133564	-	see also 333 line
31788	LTBP4	NM_003573.1	4153	tacgagtacggccagacttagg	133604	-	see also 13923 line
31789	LTBP4	NM_003573.1	1630	caggggcaccggatgattgatgt	133592	-	see also 13923 line
31790	LY64	NM_005582.1	184	ttctccggtctgtaagtcata	133608	-	see also 13924 line
31791	LY64	NM_005582.1	1600	cacgaagacaaactacttcaga	133646	-	see also 13924 line
31792	MADH2	NM_005901.2	1249	gaggagtgcgttactactata	133701	-	see also 4111 line
31793	MADH2	NM_005901.2	790	cgcgacacaccgagatcctaaca	133679	-	see also 4111 line
31794	MADH6	NM_005585.2	1782	gtctctcggcagcagtaaacg	133717	-	see also 13926 line
31795	MADH6	NM_005585.2	1815	gtccgatttcacactgtcttaca	133720	-	see also 13926 line

図46 (続き)

896

31796	MADH7	NM_005904.1	1351	caggacgctgttggtacacaaagg	133737	-	see also 4119 line
31797	MADH7	NM_005904.1	1431	ggcccaatgaccacaggtttatg	133738	-	see also 4119 line
31798	MALT1	NM_006785.2	1354	gtgtactaatgactaaacttact	133764	-	see also 4779 line
31799	MALT1	NM_006785.2	2120	aaccacggagataataatgtgt	133790	-	see also 4779 line
31800	MAP3K7IP	NM_006116.1	569	cggtagaacgcgtgacatttat	133814	-	see also 13929 line
31801	MAP3K7IP	NM_006116.1	576	aaccgtgacatttatgcaaatc	133815	-	see also 13929 line
31802	MEN1	NM_000244.2	1055	gacctactatggagtagaacaca	133828	-	see also 13930 line
31803	MEN1	NM_000244.2	1480	ggcagaaggtgcgcatagtggc	133832	-	see also 13930 line
31804	MGC10485	NM_052875.2	948	ggaggactgtgacacatgaatt	133841	-	see also 9440 line
31805	MGC10485	NM_052875.2	949	aggactgtgacacattgaattt	133842	-	see also 9440 line
31806	MGC23166	NM_152735.2	1655	ctgcccactggacttacaagtga	133862	-	see also 13932 line
31807	MGC23166	NM_152735.2	423	ccgggaacttagggctcctaataag	133849	-	see also 13932 line
31808	MGC2629	NM_032522.2	719	cccttagccacgacataatacc	133875	-	see also 9234 line
31809	MGC2629	NM_032522.2	717	ctcccttagccacgacataata	133873	-	see also 9234 line
31810	MICB	NM_005931.2	36	ggcgtgccttccttctgcacc	133888	-	see also 13934 line
31811	MICB	NM_005931.2	915	cagagtgcaacggacagacttcc	133891	-	see also 13934 line
31812	MID1	NM_000381.1	2020	aacggctctatcgccctttatga	133929	-	see also 303 line
31813	MID1	NM_000381.1	1462	aacgtcgttagtctgtgaattc	133920	-	see also 303 line
31814	MPDZ	NM_003829.1	4600	cacggatgagcactcaaaagtcg	134062	-	see also 13936 line
31815	MPDZ	NM_003829.1	4598	ggcacggatggagcactcaaaagt	134061	-	see also 13936 line
31816	MPDZ	NM_003829.1	4836	aaccggatggcactcaaaataga	134066	-	see also 13936 line
31817	MPP2	NM_005374.2	1354	aacctgtatggcacacgtatga	134112	-	see also 13937 line
31818	MPP2	NM_005374.2	1076	aacgtatgagctgctcatttat	134108	-	see also 13937 line
31819	MPP6	NM_016447.2	771	ctccatgggggaatgatatagtcg	134127	-	see also 13938 line
31820	MPP6	NM_016447.2	979	atccatacaatgacaacctataa	134131	-	see also 13938 line
31821	MPZL1	NM_003953.3	811	tcggacacatgagggtctgtaaa	134157	-	see also 13939 line
31822	MPZL1	NM_003953.3	771	ggatttgcaccagtagtaagcagg	134156	-	see also 13939 line
31823	MTN	NM_145808.1	334	aggaacaccttctattatgcagc	134159	-	see also 13940 line
31824	NMNAT1	NM_022787.2	329	tgccatcacccggcactcatcg	134163	-	see also 13941 line
31825	NMNAT1	NM_022787.2	207	aacatgcacctcaggtgtttga	134161	-	see also 13941 line
31826	NPH1	NM_000272.1	840	ttgctacctaatagtcttgatgc	134191	-	see also 13942 line
31827	NPH1	NM_000272.1	590	ctgatgttggtggatagctaaag	134184	-	see also 13942 line
31828	NPH4	NM_015102.2	1517	ctcgactgtctgtctacaagg	134243	-	see also 6242 line
31829	NPH4	NM_015102.2	3552	tcacgcgaagtcgcccactaaaca	134265	-	see also 6242 line
31830	NUD5	NM_014142.2	424	ggcaagaacacacgggaattctt	134274	-	see also 13944 line
31831	NUD5	NM_014142.2	818	aggctgttcaaacgtgtactatgc	134288	-	see also 13944 line
31832	OGT	NM_003605.3	544	acctgatttcacgtggtatata	134300	-	see also 2417 line
31833	OIP106	NM_014965.1	1076	tgctatcgcaaatgtgtatttg	134425	-	see also 13946 line
31834	OIP106	NM_014965.1	1072	cacctgctatcgcaaatgtatga	134423	-	see also 13946 line
31835	OIP5	NM_007280.1	143	ttgaccaagctcttttacgacc	134443	-	see also 13947 line
31836	OIP5	NM_007280.1	487	cccggtgtttccatctctatgc	134456	-	see also 13947 line
31837	OIP5	NM_007280.1	378	ctccagaggttacaataaacgtcg	134446	-	see also 13947 line
31838	OSTF1	NM_012383.3	198	ttcagagccctgtatcgtttga	134465	-	see also 5304 line
31839	OSTF1	NM_012383.3	272	tactgacatgagcgataccaatt	134469	-	see also 5304 line

図46 (続き)

897

31840	P29	NM_015484.1	605	agccggagacgtccttataatga	134493	-	see also 13949 line
31841	P29	NM_015484.1	630	atgcagatatcgactacataat	134497	-	see also 13949 line
31842	PACSN1	NM_020804.1	453	gcctgggtgccataatgacaga	134501	-	kinase related protein kinase
31843	PACSN1	NM_020804.1	417	atcagaaagcccccacagtatgg	134500	-	see also 13842 line
31844	PACSN1	NM_020804.1	681	gcctaccattgcttgcaaga	134502	-	see also 13842 line
31845	PDHX	NM_003477.1	193	ttcgggtgatcccatagata	134504	-	see also 2351 line
31846	PDHX	NM_003477.1	1151	aggctactactccaatacaaa	134533	-	see also 2351 line
31847	PEA15	NM_003768.2	316	tggcagtgccgtgttagcttcc	134550	-	see also 13951 line
31848	PEA15	NM_003768.2	315	ctggcagtgccgtgttagcttcc	134549	-	see also 13951 line
31849	PEX12	NM_000286.1	996	cccgctggaaacagatttacaga	134563	-	see also 250 line
31850	PEX12	NM_000286.1	994	ttccgctggaaacagatttacaga	134562	-	see also 250 line
31851	PFDN4	NM_002623.2	367	ttcggagagcaacataaaccttga	134594	-	see also 13953 line
31852	PFDN4	NM_002623.2	80	cacggaaatacaagtagaatcaca	134587	-	see also 13953 line
31853	PGLYRP1a	NM_052891.1	498	cacctgtgccccaggtattcoa	134596	-	see also 13954 line
31854	pha	NM_052891.1	496	gtcaactgtgccccaggtatt	134595	-	see also 13954 line
31855	PGLYRP1b	NM_020393.1	875	aagtcacgtcgacattggttataa	134620	-	see also 13955 line
31856	eta	NM_020393.1	880	atgcgacattggttataacttcc	134622	-	see also 13955 line
31857	PGRP-L	NM_052890.2	1901	caagctctattcaggaacccctagg	134633	-	see also 13956 line
31858	PGRP-L	NM_052890.2	1569	tggccatagtgaggcaactacacc	134632	-	see also 13956 line
31859	PHC2	NM_004427.2	668	gggtgctccctcaaacctcaagt	134640	-	see also 2959 line
31860	PHIP	NM_017934.4	1627	caocctgttgatcctagattctt	134703	-	see also 13958 line
31861	PHIP	NM_017934.4	3299	aactgactggcgggacatttacc	134740	-	see also 13958 line
31862	PI3	NM_002638.2	307	atccggtgcgcacattgtgaatcc	134823	-	see also 13959 line
31863	PI3	NM_002638.2	136	gtcacgggaggttctctgttaagg	134820	-	see also 13959 line
31864	PI3	NM_002638.2	391	tgcggatggcctgtttcttcc	134825	-	see also 13959 line
31865	PMPCA	NM_015160.1	842	ggagcgcagagggccgtggatattg	134843	-	see also 13960 line
31866	PMPCA	NM_015160.1	947	ccccgagctcacgacacatcattgg	134847	-	see also 13960 line
31867	PNRC1	NM_006813.1	1051	agctgatggcagtcacacttaaaa	134864	-	see also 13961 line
31868	PNRC1	NM_006813.1	1053	ctgatggcagtcacacttaaaaac	134865	-	see also 13961 line
31869	PNRC1	NM_006813.1	695	tccccatggcagcttcttcattg	134857	-	see also 13961 line
31870	PROZ	NM_003891.1	570	tcccgctggcaggttaaaagttaaca	134874	-	see also 2646 line
31871	PROZ	NM_003891.1	1174	caaggactcacctctgtgttaaac	134884	-	see also 4356 line
31872	RAD21	NM_006265.1	1929	ttgagttatctgaaatacgaac	134932	-	see also 4356 line
31873	RAD21	NM_006265.1	365	ctgggagtagtctgaatctatca	134893	-	see also 4356 line
31874	RBBP6	NM_006910.4	1264	ttcctattggaggttttaaatct	134946	-	see also 4848 line
31875	RBBP6	NM_006910.4	1065	tccctaactcaactatgatac	134941	-	see also 4848 line
31876	RCBTB1	NM_018191.2	953	tgcggttacgcacactctatgc	135103	-	see also 13965 line
31877	RCBTB1	NM_018191.2	505	caaccgaagatggagtggtttatg	135091	-	see also 13965 line
31878	RCN2	NM_002902.1	564	tcccggttgagcttggaagaat	135124	-	see also 13966 line
31879	RCN2	NM_002902.1	824	taccttgaggtagctacctaataat	135132	-	see also 13966 line

图46 (续七)

[illegible]

899

図46 (続き)

31923	SERPINA7	NM_000354.2	1464	cactttctacacccctattatoc	135880	-	see also 13985 line
31924	SERPINA7	NM_000354.2	1468	ttctctacacccctattatcaaat	135881	-	see also 13985 line
31925	SERPINA7	NM_000354.2	1043	tgcaacagatggaacatactat	135869	-	see also 13985 line
31926	SERPINA7	NM_005024.1	548	tggtgaacccctactactttaaa	135901	-	see also 13986 line
31927	SERPINA7	NM_005024.1	550	gtgaacgcccctactactttaagg	135902	-	see also 13986 line
31928	SERPINA7	NM_004568.3	618	accgagagagagactgtttaagt	135921	-	see also 13987 line
31929	SERPINA7	NM_004568.3	531	ggctcagtggtatccattgacaag	135920	-	see also 13987 line
31930	SERPINA7	NM_004568.3	527	tcgggctcagtggtatccattga	135919	-	see also 13987 line
31931	SERPINA7	NM_002640.3	605	gacagtcgacccctgacacaaag	135933	-	see also 13988 line
31932	SERPINA7	NM_002640.3	529	aagagtgaggaagcattataat	135929	-	see also 13988 line
31933	SERPINA7	NM_004155.3	115	ttgcatacgcctttaagata	135942	-	see also 13989 line
31934	SERPINA7	NM_004155.3	116	tgccatacgcctttaagatac	135943	-	see also 13989 line
31935	SERPINA7	NM_004155.3	598	atgaaccgttgacgaacatac	135951	-	see also 13989 line
31936	SGTA	NM_003021.3	714	ccccgacacgagacatacaagt	135966	-	see also 13990 line
31937	SGTA	NM_003021.3	713	accgcacacgagacatacaag	135965	-	see also 13990 line
31938	SHANK2	NM_012309.1	37	gtgatgatgacgggctacataa	135972	-	see also 13991 line
31939	SHANK2	NM_012309.1	276	gacgggggactcttctgattgagg	135980	-	see also 13991 line
31940	SLC12A9	NM_020246.2	1670	ttccaccaggtgcgaagtatct	136029	-	see also 13992 line
31941	SLC12A9	NM_020246.2	2066	ctgacgggacccggcttctctga	136032	-	see also 13992 line
31942	SLC9A3R2	NM_004785.1	780	ccccgagacagatgaacacttca	136038	-	see also 13993 line
31943	SLC9A3R2	NM_004785.1	666	cgcccgaggacggcctcttgaag	136037	-	see also 13993 line
31944	SLIT1	NM_003061.1	4070	aacagcgaggcgccactctatgt	136070	-	see also 13994 line
31945	SLIT1	NM_003061.1	453	ctcggtacataagaagaacttt	136041	-	see also 13994 line
31946	SLIT2	NM_004787.1	1964	tacttctacgagtaactgtttg	136137	-	see also 3302 line
31947	SLIT2	NM_004787.1	3737	ttggcctcagacgaacataaca	136189	-	see also 3302 line
31948	SLIT3	NM_003062.1	2583	ctccgacacctgacgttattga	136229	-	see also 13996 line
31949	SLIT3	NM_003062.1	3267	gacacgactcggaacacaaatgo	136236	-	see also 13996 line
31950	SMO	NM_005631.3	1743	tactatgcaaggcccaatgtgacc	136263	-	see also 13997 line
31951	SMO	NM_005631.3	1723	ggcagcttcgggactatgtgc	136261	-	see also 13997 line
31952	SNCAIP	NM_005460.1	192	aagatgtgatacgcaaacgaag	136265	-	see also 13998 line
31953	SNCAIP	NM_005460.1	325	cggtttcgccactgaacacaa	136289	-	see also 13998 line
31954	SNX6	NM_021249.2	780	ggcagcaacgacacattctttt	136317	-	see also 13999 line
31955	SNX6	NM_021249.2	744	atcgtttcaggagtaaaagatgt	136315	-	see also 13999 line
31956	SOC5	NM_014011.3	1614	tgacgttgcaactacgtatgagg	136393	-	see also 14000 line
31957	SOC5	NM_014011.3	600	cgctacgctgaagtctctgaca	136356	-	see also 14000 line
31958	SOC5	NM_014011.3	649	ctgtaggaagtcgctctctaaga	136358	-	see also 14000 line
31959	SORCS2	NM_020777.1	1006	ctctatcgtgaaatgaatttg	136406	-	see also 14001 line
31960	SORCS2	NM_020777.1	3229	ggcgtgtacgcccaaatgcaca	136426	-	see also 14001 line
31961	SORCS2	NM_020777.1	1300	gacgttatacctacacaaagg	136412	-	see also 14001 line
31962	SPEC1	NM_020239.2	440	gaccatgattggggacacaaatga	136428	-	see also 14002 line
31963	SPEC1	NM_020239.2	444	atgattggggaaccaaagaattt	136429	-	see also 14002 line
31964	SPEC2	NM_020240.1	62	gacggcggaattgacagaagtatg	136433	-	see also 14003 line
31965	SPEC2	NM_020240.1	65	ggcggatttgacagaagtattgatt	136435	-	see also 14003 line
31966	SPOP	NM_003563.2	1403	cacgcaaacgcctggaagaatcc	136453	-	see also 14004 line

900

図46 (続き)

31967	SPOP	NM_003563.2	825	taccatgaacatgtaaggttc	136448	-	see also 14004 line	structural constituent of tooth enamel	-
31968	STATH	NM_003154.1	210	accactataccacacacataacc	136454	-	-	-	-
31969	STATH	NM_003154.1	225	accatacacaaccacataccaac	136455	-	see also 31968 line	-	-
31970	STIM1	NM_003156.2	1494	cggagccgcaaaaataatgctga	136465	-	see also 2129 line	-	-
31971	STIM1	NM_003156.2	1491	gagcggagccgcaaaaataatgc	136464	-	see also 2129 line	-	-
31972	STIM2	NM_020860.1	2368	gcctcgagatataccaaacatta	136512	-	see also 14006 line	-	-
31973	STIM2	NM_020860.1	2359	ctccttaagcctcgagatatac	136510	-	see also 14006 line	-	-
31974	TA-KRP	NM_032505.1	1165	tgcaatcgggagctggtttatg	136566	-	see also 14007 line	-	-
31975	TA-KRP	NM_032505.1	486	tcggagatcgatcaaaagaatac	136541	-	see also 14007 line	-	-
31976	TANK	NM_004180.2	168	aacattggcgcagcaactcaataa	136592	-	see also 14008 line	-	-
31977	TANK	NM_004180.2	264	aactatgagcagagaatacgtga	136597	-	see also 14008 line	-	-
31978	TANK	NM_004180.2	356	ttccactcaagatacaaatatg	136600	-	see also 14008 line	-	-
31979	TCEB3	NM_003198.1	1496	accgcgatagagcccaattacc	136656	-	see also 2160 line	-	-
31980	TCEB3	NM_003198.1	1948	agcggctacgggtactaacaag	136672	-	see also 2160 line	-	-
31981	TGFA	NM_003236.1	144	cagcagtggtgtcccatthta	136680	-	see also 14010 line	-	-
31982	TGFA	NM_003236.1	397	ctgctgcaggtccgaaacact	136683	-	see also 14010 line	-	-
31983	TIP-1	NM_014604.1	219	gcgtcaaggtgagaacttaacc	136688	-	see also 14011 line	-	-
31984	TIP-1	NM_014604.1	184	accgcctgtgtgcacagagttga	136685	-	see also 14011 line	-	-
31985	TNFAIP1	NM_021137.3	958	gacactcaactctactctatg	136696	-	see also 14012 line	-	-
31986	TNFAIP1	NM_021137.3	932	ttccagagccgcgaactctatga	136695	-	see also 14012 line	-	-
31987	TNIP1	NM_006058.2	2057	acctgtgaggggttcgaatac	136707	-	see also 14013 line	-	-
31988	TNIP1	NM_006058.2	2058	cctgtgaggggttcgaatacc	136708	-	see also 14013 line	-	-
31989	TNKS	NM_003747.1	1104	ggcgaaagtgactcctttaca	136731	-	see also 2565 line	-	-
31990	TNKS	NM_003747.1	607	tgttgacgcgcgaacgtaaat	136717	-	see also 2565 line	-	-
31991	TOB1	NM_005749.2	588	accaagttcggctctaccaaat	136820	-	see also 3996 line	-	-
31992	TOB1	NM_005749.2	630	aacaagttgcacgtactctcc	136821	-	see also 3996 line	-	-
31993	TOB1	NM_005749.2	356	accagtaaggtctttacgtgg	136812	-	see also 3996 line	-	-
31994	TOLLIP	NM_019009.2	438	ccagcgtggaactctttctatc	136834	-	see also 14016 line	-	-
31995	TOLLIP	NM_019009.2	261	caccgtggcgcgactgaacatca	136830	-	see also 14016 line	-	-
31996	TRAPPC4	NM_016146.1	290	agctggcggttgattaccagt	136838	-	protein binding	-	-
31997	TRAPPC4	NM_016146.1	531	taccgggtgtccattcgatttgg	136839	-	see also 31996 line	-	-
31998	TRAPPC4	NM_016146.1	758	ttcttctcgaagaagattatg	136843	-	see also 31996 line	-	-
31999	TRIM14	NM_014788.2	661	agccgtgagaggtacattacaga	136853	-	see also 14017 line	-	-
32000	TRIM14	NM_014788.2	353	ttcacttaactcagattactact	136849	-	see also 14017 line	-	-
32001	TRIP10	NM_004240.1	1443	ccccattcaacaggttgatg	136869	-	see also 2847 line	-	-
32002	TRIP10	NM_004240.1	1655	acctccagtcacgcctcaatga	136874	-	see also 2847 line	-	-
32003	TRIP15	NM_004236.1	1261	aggggtgtgcacgatatactgc	136922	-	see also 2826 line	-	-
32004	TRIP15	NM_004236.1	941	tagcaatgacgaatttagtaagt	136907	-	see also 2826 line	-	-
32005	TRIP6	NM_003302.1	976	cacgtgggtgctgtttgtatgttc	136929	-	see also 14020 line	-	-
32006	TRIP6	NM_003302.1	1336	ctggatogaagttttcacattgg	136935	-	see also 14020 line	-	-
32007	TRIP6	NM_003302.1	1332	tgctcggatcgaagttttcaca	136933	-	see also 14020 line	-	-
32008	TTC1	NM_003314.1	879	accggctcgtactccatcaatt	136959	-	see also 2246 line	-	-

図4.6 (続き)

901

32009	TTC1	NM_003314.1	884	ctcgtactccatcaaatctgttc	136962	-	see also 2246 line
32010	TWSG1	NM_020648.3	726	atgtattgactatgtagtaaaa	136980	-	see also 14022 line
32011	TWSG1	NM_020648.3	716	ttgttcagaatgtattgactat	136978	-	see also 14022 line
32012	USH1C	NM_005709.1	1454	tcggctcctactacatcaagaag	137000	-	see also 14023 line
32013	USH1C	NM_005709.1	490	gacgagatcgccggatcaagg	136987	-	see also 14023 line
32014	VBP1	NM_003372.3	531	ggcagataaacctgtattgcaag	137013	-	see also 2275 line
32015	VBP1	NM_003372.3	530	tggcagataaacctgtattgcaaa	137012	-	see also 2275 line
32016	VPS26	NM_004896.2	105	gtccaattgtgagatcgatatt	137022	-	see also 14025 line
32017	VPS26	NM_004896.2	106	tccaattgtgagatcgatattg	137023	-	see also 14025 line
32018	VPS35	NM_018206.2	197	tgtgaaactccggactctatgt	137047	-	see also 7319 line
32019	VPS35	NM_018206.2	196	ttgtgaaactccggactctatg	137046	-	see also 7319 line
32020	WWP1	NM_007013.3	1552	atctcagcggaaacaaattgcagg	137075	-	see also 14027 line
32021	WWP1	NM_007013.3	561	taggaaaagcaacgatagatttg	137071	-	see also 14027 line
32022	XAB2	NM_020196.1	450	atcacgcagcactctcgaatttg	137084	-	see also 14028 line
32023	XAB2	NM_020196.1	355	ctcgtctgtggctagattactgc	137083	-	see also 14028 line
32024	YAP1	NM_006106.2	1139	ccctgcgtagccagttaccaca	137103	-	see also 14029 line
32025	YAP1	NM_006106.2	821	atcacatcgatcagacaacaaca	137102	-	see also 14029 line
32026	ZBTB4	NM_020899.2	1788	gcctcgtgtatcaacttaactgc	137122	-	see also 14030 line
32027	ZBTB4	NM_020899.2	1784	agctgcctcggttactactaca	137120	-	see also 14030 line
32028	ZBTB5	NM_014872.1	1393	gagcataagtcacatttttagtat	137149	-	see also 6088 line
32029	ZBTB5	NM_014872.1	602	cccgcatcgacgcctcctttatg	137134	-	see also 6088 line
32030	ZBTB8	NM_144621.2	91	atggagatgcaatctattatgc	137161	-	see also 14032 line
32031	ZBTB8	NM_144621.2	176	ttgttggaaggcggatcttcaag	137162	-	see also 14032 line
32032	ZNF- ZNF- ZNF- ZNF- ZNF-	NM_006777.2	686	ttgcacctaagtctagcaataac	137198	-	see also 4776 line
32033	ZNF- ZNF- ZNF-	NM_006777.2	1281	atcgactggttgcaagttttatg	137221	-	see also 4776 line
32034	U69274	NM_014415.1	2938	ctcgaacactcgcgtaaacatag	137332	-	see also 14035 line
32035	U69274	NM_014415.1	1901	acgataagcccttataatgcaca	137298	-	see also 14035 line
32036	ZNF259	NM_003904.1	172	gtcgtatgcatgaaactgttact	137347	-	see also 14036 line
32037	ZNF259	NM_003904.1	473	ttgatcaccctgctctatctctg	137352	-	see also 14036 line
32038	ZNF499	NM_032792.2	615	tgttcgcatacacagcagttatc	137371	-	see also 14037 line
32039	ZNF499	NM_032792.2	1485	ctggagccactctactatgagtg	137374	-	see also 14037 line
32040	CALR3	NM_145046.2	655	tacgactggaaacttaacatcact	137389	-	see also 14038 line
32041	CALR3	NM_145046.2	217	tctcggcgcaagtttatggica	137379	-	see also 14038 line
32042	CANX	NM_001746.2	650	atgacaagacccttatacagatt	137409	-	see also 1156 line
32043	CANX	NM_001746.2	657	gacccttatacagattatgttg	137411	-	see also 1156 line
32044	CASQ1	NM_001231.2	561	gagtagatggcgagtttttgc	137445	-	see also 14040 line
32045	CASQ1	NM_001231.2	559	ttgagtacatggcgagttttct	137444	-	see also 14040 line
32046	CASQ2	NM_001232.1	200	aaggaccgagtgtagtcttcttc	137462	-	see also 14041 line
32047	CASQ2	NM_001232.1	462	aggggtgatcgacaatagagttt	137469	-	see also 14041 line
32048	CLGN	NM_004362.1	1222	ctccacttgctgataatcctaac	137516	-	see also 2925 line
32049	CLGN	NM_004362.1	313	tggctgatgggtcttatcaaaa	137487	-	see also 2925 line
32050	CLGN	NM_004362.1	497	tgtctgataaacctctgtagttc	137495	-	see also 2925 line

図46 (続き)

902

32051	FLJ20793	NM_019022.3	579	gagacacggtgattttcgttt	137558	-	see also 7663 line
32052	FLJ20793	NM_019022.3	169	ctctgcgcacacgtgtgttact	137537	-	see also 7663 line
32053	AGPAT2	NM_006412.2	266	tgcgaagcttcaagtaactttac	137589	-	see also 14044 line
32054	AGPAT2	NM_006412.2	662	tctgtccctgtgtactcttcc	137592	-	see also 14044 line
32055	AKAP13	NM_006738.4	6104	gtcttgagctcggataatagaca	137714	-	see also 14046 line
32056	AKAP13	NM_006738.4	6616	ttgttaactcagcgattaccacag	137737	-	see also 14046 line
32057	ANKRD5	NM_022096.4	1781	ctgtagcagcgggttaataaga	137824	-	see also 8268 line
32058	ANKRD5	NM_022096.4	1120	gaactggggctgatttcgataaa	137800	-	see also 8268 line
32059	ANXA1	NM_000700.1	946	ctcgccataagccattgatacag	137873	-	see also 14048 line
32060	ANXA1	NM_000700.1	226	tgcataaggccataatggttaa	137860	-	see also 14048 line
32061	ANXA10	NM_007193.2	975	gaccataeggaacgatacaaaag	137887	-	see also 4995 line
32062	ANXA10	NM_007193.2	888	tagattatagtccaattcatg	137883	-	see also 4995 line
32063	ANXA13	NM_004306.1	828	ttctgtgaactctgtacaagtcg	137906	-	see also 14050 line
32064	ANXA13	NM_004306.1	545	ctgcaggctaatgcgaatgaagg	137900	-	see also 14050 line
32065	ANXA3	NM_005139.1	856	tactctgaacccgaataatggtgt	137931	-	see also 14051 line
32066	ANXA3	NM_005139.1	428	atctctcaagccttattacagt	137917	-	see also 14051 line
32067	ANXA4	NM_001153.2	163	agggctcggcacccgatgaagacg	137934	-	see also 14052 line
32068	ANXA4	NM_001153.2	254	accatcggcaggagactgtataga	137938	-	see also 14052 line
32069	ANXA5	NM_001154.2	558	ggagagccatcaacaagtgtatg	137962	-	see also 14053 line
32070	ANXA5	NM_001154.2	241	ggcgggctgagcagaaactct	137955	-	see also 14053 line
32071	ANXA6	NM_001155.2	916	tccggagcccccgggaatattt	137988	-	see also 733 line
32072	ANXA6	NM_001155.2	915	atccggagcaccgccgaatattt	137987	-	see also 733 line
32073	ANXA6	NM_001155.2	408	ggcaagttgaacggttgatgt	137975	-	see also 733 line
32074	ANXA7	NM_001156.2	1150	atggctaactggagactgttaag	138038	-	see also 14055 line
32075	ANXA7	NM_001156.2	625	gtggggccaacccgttccaatga	138016	-	see also 14055 line
32076	ANXA8	NM_001630.1	918	cggtgtgaggaccctgataaga	138054	-	see also 14056 line
32077	ANXA8	NM_001630.1	952	aaggagcggagattgaactaaatc	138056	-	see also 14056 line
32078	ANXA9	NM_003568.1	1203	gcctagctcggatgatacaagaac	138070	-	see also 14057 line
32079	ANXA9	NM_003568.1	1287	aagtcctgattcgcatccttato	138071	-	see also 14057 line
32080	APBA2BP	NM_031231.2	352	atgggcatctaccgcacaattta	138074	-	see also 14058 line
32081	APBA2BP	NM_031231.2	218	cagcctcttcaggacggtttcc	138073	-	see also 14058 line
32082	ASPH	NM_004318.2	267	ctgggctgtctggacatctgtagc	138083	-	see also 2887 line
32083	ASPH	NM_004318.2	281	atctgtagctgtgttggttg	138084	-	see also 2887 line
32084	BGLAP	NM_000711.1	163	ccaggcgtactctgtatcaatg	138142	-	VDR/RXR alpha heterodimer
32085	BMP1	NM_001199.1	838	tgcattacgctcggaacacattc	138146	-	see also 779 line
32086	BMP1	NM_001199.1	731	ttccattcttctggagaacatcc	138145	-	see also 779 line
32087	BMPER	NM_133468.2	420	ggcgtcgtcgtgggttactgtgc	138170	-	see also 9585 line
32088	BMPER	NM_133468.2	2284	ctgtgtccggagatgatacaaga	138219	-	see also 9585 line
32089	C14orf10	NM_017917.2	698	aagcgtatgataaatacgaataac	138232	-	see also 7172 line
32090	C14orf10	NM_017917.2	699	agcgtatgataaatacgaataact	138233	-	see also 7172 line
32091	C14orf143	NM_145231.1	288	aacgatactggaacgaagaaga	138268	-	see also 14063 line
32092	C14orf143	NM_145231.1	339	gacacactatctgtggtttt	138269	-	see also 14063 line
32093	C14orf143	NM_145231.1	465	cacgtcagctttagactttga	138276	-	see also 14063 line

903

図46 (続き)

32094	C1orf10	NM_016190.1	267	aggaattcctggtcttattgttt	138280	-	see also 14064 line
32095	C1orf10	NM_016190.1	1366	tggtaggaatgggttgatgacc	138285	-	see also 14064 line
32096	C1orf22	NM_025191.2	1542	ttgtatgctcaagttattgtga	138325	-	see also 14065 line
32097	C1orf22	NM_025191.2	732	gtggcgtgactataaatttica	138303	-	see also 14065 line
32098	C1QR1	NM_012072.2	839	gacgagactcagagtcattattt	138353	-	see also 14066 line
32099	C1QR1	NM_012072.2	1680	aggctacaccaccacaaagtaga	138354	-	see also 14066 line
32100	C1R	NM_001733.2	1048	tcctgactacttacttctacc	138364	-	see also 14067 line
32101	C1R	NM_001733.2	1446	cgcatactggagggcaaaaagc	138365	-	see also 14067 line
32102	C1S	NM_001734.1	562	tacggggttctgcatactatg	138371	-	see also 14068 line
32103	C1S	NM_001734.1	2195	tacacacgggtaaagaactatgt	138417	-	see also 14068 line
32104	C2Orf31	NM_018217.1	1183	ccactctggccagaactatttg	138443	-	see also 7327 line
32105	C2Orf31	NM_018217.1	1304	tgcgattgcacaatacaaga	138445	-	see also 7327 line
32106	Cab45	NM_016176.2	741	gacgagtataagggtgaatttt	138453	-	see also 14069 line
32107	Cab45	NM_016176.2	734	gtcttgggacgagtataaggtag	138452	-	see also 14069 line
32108	CABP1	NM_004276.3	483	accgagacatagagaaatttc	138459	-	see also 14070 line
32109	CABP1	NM_004276.3	121	atcactcgcaccagagagaaattg	138457	-	see also 14070 line
32110	CABP2	NM_016366.1	452	ggcgaaaggtggactttgaaga	138461	-	see also 14071 line
32111	CABP5	NM_019855.3	600	gacggcacagttgactttgaaga	138473	-	see also 14073 line
32112	CABP5	NM_019855.3	315	ccacggagagatggaacttgattga	138470	-	see also 14073 line
32113	CABP5	NM_182527.1	401	ttccatggaccacactttgatac	138474	-	see also 14074 line
32114	CABP7	NM_182527.1	402	tcctatggcacccgactttgatact	138475	-	see also 14074 line
32115	CACNA1C	NM_000719.3	1681	gtcctcaacaccgaaaacgtgg	138498	-	see also 442 line
32116	CACNA1G	NM_000719.3	1746	ccacccggatctccaaagtcaaaag	138500	-	see also 442 line
32117	CACNA1D	NM_000720.1	4751	agggtagcgtgcgaagagattagt	138612	-	see also 445 line
32118	CACNA1E	NM_000721.1	1517	aggtagacggggtctcttatttc	138678	-	see also 457 line
32119	CACNA1E	NM_000721.1	1371	tggaaacatccgcttgaagatgc	138672	-	see also 457 line
32120	CACNA1F	NM_005183.1	3794	cacgtttgacgctcttattgtgg	138784	-	see also 3643 line
32121	CACNA1F	NM_005183.1	2836	gcctagctggttttaataatttg	138768	-	see also 3643 line
32122	CACNA1F	NM_005183.1	3458	ggcgagcagggagtagccaaaact	138780	-	see also 3643 line
32123	CACNA1G	NM_018896.3	3074	cagaccggaagaattttgactcc	138807	-	see also 7604 line
32124	CACNA1G	NM_018896.3	4602	accatcggcgaacatttgatgca	138814	-	see also 7604 line
32125	CACNA1H	NM_021098.1	6444	agcgtccgactcgtgaagcacc	138850	-	see also 14080 line
32126	CACNA1H	NM_021098.1	2419	gcctgtggcgtctatgaattcacg	138838	-	see also 14080 line
32127	CACNA1I	NM_021096.2	813	gtcggcgcaaatgggataatgg	138857	-	see also 14081 line
32128	CACNA1I	NM_021096.2	3589	ggcagcacccgaacgcactcttct	138869	-	see also 14081 line
32129	CACNA1I	NM_021096.2	5742	ctcgccgagtcagagaaacttcc	138883	-	see also 14081 line
32130	CACNA1S	NM_000089.1	4542	ccacacagctgcttggtaagc	138925	-	see also 14082 line
32131	CACNA1S	NM_000089.1	1597	cactggctgaccccttggcaaga	138897	-	see also 14082 line
32132	CALB2	NM_001740.2	161	ggcggaaatgggtatttgaagg	138936	-	see also 1152 line
32133	CALB3	NM_004057.1	199	aacacctagatgactctttca	138948	-	see also 14084 line
32134	CALML3	NM_005185.2	263	ggcgagctcgggacatgaga	138949	-	calcium ion binding -
32135	CALML5	NM_017422.3	163	cgcggtgaacacggatggaacag	138950	-	see also 14085 line
32136	CALN1	NM_031468.1	569	ttcagaaggctcgcgatggtttc	138952	-	see also 14086 line
32137	CALN1	NM_031468.1	823	gcctcatatgcgctttgtctatg	138958	-	see also 14086 line

904

図46 (続き)

32138	CALN1	NM_031488.1	589	ttctgggaacacgtagacagc	138953	-	see also 14086 line
32139	CALU	NM_001219.2	983	ggccttagtcgcatgatgagt	138983	-	see also 795 line
32140	CAPN1	NM_005186.2	2143	actctggcgtcgacttgacaaat	138994	-	see also 14088 line
32141	CAPN1	NM_005186.2	404	tccacaggaactgctgtcaaac	138984	-	see also 14088 line
32142	CAPN1	NM_007058.1	869	gtgagaggcagcgtctactctgt	139009	-	see also 14089 line
32143	CAPN1	NM_007058.1	1066	ctggatgtctctaccagaatttcc	139010	-	see also 14089 line
32144	CAPN2	NM_001748.3	2142	ttcggctggaaagcctattcaag	139057	-	see also 1157 line
32145	CAPN2	NM_001748.3	698	ggcaagatcaacggatgctatga	139030	-	see also 1157 line
32146	CAPN3	NM_000070.2	2258	agcaacaattccggacaatttcc	139099	-	see also 14091 line
32147	CAPN3	NM_000070.2	2516	accagtcggcgaccacaacagc	139104	-	see also 14091 line
32148	CAPN9	NM_006615.1	848	ggcgcctgttgctcttattaaag	139126	-	see also 14092 line
32149	CAPN9	NM_006615.1	485	cctgtgtatgcgggatattcc	139118	-	see also 14092 line
32150	CAPN1	NM_001749.1	798	atccgacgtactcagatgaag	139159	-	see also 14093 line
32151	CAPN1	NM_001749.1	799	tccgacgtactcagatgaag	139160	-	see also 14093 line
32152	CAPN2	NM_032330.1	320	aggcgtattggacaacaatttac	139165	-	see also 14094 line
32153	CAPN2	NM_032330.1	668	cgccggatgctaatgaagatgg	139172	-	see also 14094 line
32154	CAPS	NM_004058.2	205	cagggttttccgccaaactagacc	139178	-	see also 14095 line
32155	CAPS2	NM_032606.2	1115	aagatgaacacctcttgatgtag	139180	-	see also 14096 line
32156	CAPS2	NM_032606.2	1841	ttcaaacgtgtattattgttga	139192	-	see also 14096 line
32157	CBARA1	NM_006077.1	154	tccagatccggcggaactaatg	139205	-	see also 4219 line
32158	CBARA1	NM_006077.1	567	cacttggctggatcaaatat	139220	-	see also 4219 line
32159	CBARA1	NM_006077.1	153	atccagatccggcggaactaat	139204	-	see also 4219 line
32160	CD164L1	NM_020404.1	1487	ttcctacaacccgggtattctot	139243	-	see also 14098 line
32161	CD164L1	NM_020404.1	725	ggcctgccaacacgaatgttgg	139239	-	see also 14098 line
32162	CD97	NM_001784.2	1390	tgcgcatctatggctcattatg	139256	-	see also 14099 line
32163	CDH1	NM_001784.2	924	ggcagcagcgaagctgaattgg	139251	-	see also 14099 line
32164	CDH1	NM_004360.2	874	cacggtaacccgacagatgaca	139278	-	see also 14100 line
32165	CDH1	NM_004360.2	872	atcacgggtaacccgacagatga	139277	-	see also 14100 line
32166	CDH10	NM_006727.2	2388	ctccggcgagatattatccaga	139373	-	see also 14101 line
32167	CDH10	NM_006727.2	1261	atgggtgacggctactgatgttt	139340	-	see also 14101 line
32168	CDH11	NM_001797.2	1669	ctgccaacaccccgataagggtat	139405	-	see also 1173 line
32169	CDH11	NM_001797.2	850	tggagccaccgtcggaattcatt	139385	-	see also 1173 line
32170	CDH12	NM_004061.2	2408	atcgccactaatgaattactaga	139471	-	see also 14103 line
32171	CDH12	NM_004061.2	1834	agccgggaacaacaatagtcaaca	139453	-	see also 14103 line
32172	CDH13	NM_001257.2	1167	cacgatcatgatgatgacaaaa	139527	-	see also 818 line
32173	CDH13	NM_001257.2	957	tgcctctcgtcgggtataatcc	139523	-	see also 818 line
32174	CDH15	NM_004933.2	2208	atcgccgaactcatcaatgatgg	139556	-	see also 14105 line
32175	CDH15	NM_004933.2	2007	caggagacacttcgagacaatgt	139555	-	see also 14105 line
32176	CDH16	NM_004062.2	547	agccaactcggatctctgatcc	139559	-	see also 14106 line
32177	CDH16	NM_004062.2	1382	gtcgcagtcacagatcaatga	139568	-	see also 14106 line
32178	CDH17	NM_004063.2	1141	cctgaccagtaacccgtatttga	139609	-	see also 2738 line
32179	CDH17	NM_004063.2	2341	gtcgtcttgatcgcgcatcaatga	139647	-	see also 2738 line
32180	CDH18	NM_004934.2	764	agcatattgatagacgtacaaaaa	139669	-	see also 14108 line
32181	CDH18	NM_004934.2	1574	gaccgtcgtggtgacagttttgg	139693	-	see also 14108 line

905

図46 (続き)

32182	CDH18	NM_004934.2	999	ttctccgtcgacccctaaacagc	139674	-	see also 14108 line
32183	CDH19	NM_021153.2	664	gacgacccctcaagtgtaataa	139745	-	see also 14109 line
32184	CDH19	NM_021153.2	1126	tacggattatagacaaaagttaa	139765	-	see also 14109 line
32185	CDH2	NM_001792.2	888	agcagatagcccggtttcatttg	139825	-	see also 1160 line
32186	CDH2	NM_001792.2	1734	ttcatgccgttaccattgttgaca	139853	-	see also 1160 line
32187	CDH20	NM_031891.2	2237	tggactccctcagcagctatatg	139935	-	see also 9045 line
32188	CDH20	NM_031891.2	1946	accggaaacaaacatacatcatc	139933	-	see also 9045 line
32189	CDH22	NM_021248.1	1691	cgccattgacgcggaatcagatt	139943	-	see also 14112 line
32190	CDH22	NM_021248.1	1716	gaccagatcttcgtatcgtatgc	139945	-	see also 14112 line
32191	CDH22	NM_021248.1	1692	gcatctgacgcgaatcagattt	139944	-	see also 14112 line
32192	CDH23	NM_022124.2	1258	agcggagtgctgaccttgatgg	139952	-	see also 8289 line
32193	CDH23	NM_022124.2	1607	agggaaaggcgagacattcgtatt	139955	-	see also 8289 line
32194	CDH24	NM_022478.2	1649	agccctacgatacttttgtgt	140046	-	see also 14114 line
32195	CDH24	NM_022478.2	1644	ggctgagccctacgatacttttg	140045	-	see also 14114 line
32196	CDH26	NM_022478.2	1344	tccggagcttgctctctatcc	140042	-	see also 14114 line
32197	CDH26	NM_021810.3	275	accacgcgagggagtgtaagtc	140049	-	see also 14115 line
32198	CDH26	NM_021810.3	276	ccacgcgagggagtgtaagtc	140050	-	see also 14115 line
32199	CDH3	NM_001793.2	2149	caccctgacacagctcttctact	140139	-	see also 14116 line
32200	CDH3	NM_001793.2	2151	ccgtgacacagctcttctact	140140	-	see also 14116 line
32201	CDH4	NM_001794.2	2007	accgctgacacagctcttctact	140170	-	see also 1165 line
32202	CDH4	NM_001794.2	1584	accgctgacacagctcttctact	140162	-	see also 1165 line
32203	CDH5	NM_001795.2	737	ggctattatcaacaataaagaa	140192	-	see also 14118 line
32204	CDH5	NM_001795.2	1641	aacaccacgaacagtgaaagtc	140204	-	see also 14118 line
32205	CDH5	NM_001795.2	724	atcgataattctggacgtattat	140189	-	see also 14118 line
32206	CDH6	NM_004932.2	700	tcttcgagctcgaagctataaac	140221	-	see also 3431 line
32207	CDH6	NM_004932.2	1673	aacactgctatggcacacatta	140238	-	see also 3431 line
32208	CDH7	NM_004361.2	688	ggcgaaggggcgaagttccattt	140267	-	see also 2920 line
32209	CDH7	NM_004361.2	2299	ctccttatcgtcactatgagaag	140305	-	see also 2920 line
32210	CDH8	NM_001796.2	1374	ccgggacagtcacaaatcgtgg	140354	-	see also 1166 line
32211	CDH8	NM_001796.2	1370	aagacacggcgacagtcacaaatc	140353	-	see also 1166 line
32212	CDH8	NM_001796.2	1685	caggaatccctgttgctataaa	140366	-	see also 1166 line
32213	CDH9	NM_016279.2	1487	gcccctgacccgggaatcctcc	140429	-	see also 14122 line
32214	CDH9	NM_016279.2	958	tcccagagtcagtcataaatta	140415	-	see also 14122 line
32215	CDH9	NM_016279.2	669	ctggagtcgggtacatctgtata	140405	-	see also 14122 line
32216	CEGF3	NM_152753.2	1923	cccgagggaaacgattaccacg	140488	-	see also 14123 line
32217	CEGF3	NM_152753.2	662	cccggtgcggctgcctacataag	140461	-	see also 14123 line
32218	CELSR1	NM_014246.1	4870	ctgtoagtcagcggcaaaaatgt	140523	-	see also 5554 line
32219	CELSR1	NM_014246.1	4900	ggcggattatcgcgaacaatgg	140525	-	see also 5554 line
32220	CELSR2	NM_001408.1	568	ggcgtcggaagaagaatgtaaat	140551	-	see also 14125 line
32221	CELSR2	NM_001408.1	6831	ggctactgcctaatcaactatga	140595	-	see also 14125 line
32222	CELSR3	NM_001407.1	4844	ggccagttcgttgctcatgttc	140651	-	see also 975 line
32223	CELSR3	NM_001407.1	5398	tggcggcttttgcgcaaatat	140660	-	see also 975 line
32224	CELSR3	NM_001407.1	9414	gcctttacagtcgcatctatgc	140684	-	see also 975 line
32225	CETN1	NM_004086.1	71	ctgcctccaccggccaaaaggaga	140688	-	see also 14127 line

図46 (続き)

906

32226	CETN1	NM_004066.1	312	ggcgtgatgacacagaagatgt	140690	-	see also 14127 line
32227	CETN2	NM_004344.1	83	aagttctcagcgaagaaagatga	140691	-	see also 2903 line
32228	CETN2	NM_004344.1	179	aactggcaccatagatgttaag	140694	-	see also 2903 line
32229	CETN3	NM_004365.1	416	ttcagctatgataagaattt	140707	-	see also 14129 line
32230	CETN3	NM_004365.1	368	tgcagctgttctagagaattg	140706	-	see also 14129 line
32231	CGREF1	NM_006569.2	770	aagcagtcctatttagctaaaa	140710	-	cell cycle
32232	CGREF1	NM_006569.2	281	gacgatcacagttaactctgc	140709	-	see also 32231 line
32233	CGREF1	NM_006569.2	771	aggcagtcctatttagctaaaa	140711	-	see also 32231 line
32234	CHGA	NM_001275.2	300	tacagagtgatgaatcatcgc	140715	-	see also 14130 line
32235	CHGA	NM_001275.2	496	aagaaacacagcgggttgaaga	140718	-	see also 14130 line
32236	CHP	NM_007236.3	568	atggctggagtaaatatctcaga	140725	-	see also 14131 line
32237	CHP	NM_007236.3	534	ctccggtgatgactgtacagg	140724	-	see also 14131 line
32238	CLSTN1	NM_014944.1	2762	ctggagtggtccaccattttgc	140764	-	see also 14132 line
32239	CLSTN1	NM_014944.1	3189	gccgtcatcatagcaacgaattt	140768	-	see also 14132 line
32240	CLSTN2	NM_022131.1	105	tcctcggagctaaagctcaatag	140776	-	see also 8296 line
32241	CLSTN2	NM_022131.1	104	ctcctcggcgtaaagctcaatag	140775	-	see also 8296 line
32242	CLSTN3	NM_014718.1	2656	cacacgcattcggatgagattg	140823	-	see also 5912 line
32243	CLSTN3	NM_014718.1	695	gacaacacggctcctactgaatcc	140811	-	see also 5912 line
32244	CLSTN3	NM_014718.1	2554	aaccacacggctcctctgtttcc	140822	-	see also 5912 line
32245	CLTA	NM_001833.1	290	ggggtccggatgcttttgatgg	140834	-	see also 14135 line
32246	CLTA	NM_001833.1	329	tactacacggaaagtaatggctc	140836	-	see also 14135 line
32247	CLTB	NM_001834.2	648	aggaggtcttcgtgaaggatcc	140845	-	see also 14136 line
32248	CPNE6	NM_006032.2	540	atcagcacacacacactatgctc	140851	-	see also 14137 line
32249	CPNE6	NM_006032.2	640	accacagagggacacaaagtgatca	140854	-	see also 14137 line
32250	CRB1	NM_012076.1	997	tgcacgggtatggattccacagg	140866	-	see also 5111 line
32251	CRB1	NM_012076.1	1147	atcgacctcaatgaatgaatag	140871	-	see also 5111 line
32252	CRELD1	NM_015513.2	1214	ggccaggtcgtgtaagaagtg	140962	-	see also 6446 line
32253	CRELD1	NM_015513.2	974	acgcagcccatctggtatgtcg	140957	-	see also 6446 line
32254	CRTAC1	NM_018058.1	735	cacgcgcgactttgacaaagacc	140967	-	see also 14140 line
32255	CRTAC1	NM_018058.1	380	aggctggggtcagcaaatatata	140964	-	see also 14140 line
32256	CSN2	NM_001891.1	220	ttgaacctatccctatggtttt	140974	-	see also 14141 line
32257	CSN2	NM_001891.1	313	aagtccttaagcgtaaagacact	140976	-	see also 14141 line
32258	CSPG2	NM_004385.2	657	ggactcatgtacggggtgaaga	140989	-	see also 2948 line
32259	CSPG2	NM_004385.2	3295	ctgccttgaagcactattctt	141060	-	see also 2948 line
32260	CSPG3	NM_004386.1	639	acggcaactttcggatctatc	141260	-	see also 14143 line
32261	CSPG3	NM_004386.1	211	cggagatcccctcggatgaagt	141259	-	see also 14143 line
32262	CUBN	NM_001081.2	3105	gactccgacctcgtgtatgaag	141373	-	see also 14144 line
32263	CUBN	NM_001081.2	2881	acccacggtatcaactgtact	141367	-	see also 14144 line
32264	DCSTAMP	NM_030788.2	417	atggtatgacttgcacactaagg	141586	-	see also 14145 line
32265	DCSTAMP	NM_030788.2	510	ttgcactccactaagtgtatt	141587	-	see also 14145 line
32266	DEF6	NM_022047.2	1681	aaccggctgatgcacaaattga	141618	-	see also 8247 line
32267	DEF6	NM_022047.2	987	ggggaagcagctccctacacaaag	141614	-	see also 8247 line
32268	DGKA	NM_001345.3	1222	ctggacgcggatgctaaaaatagc	141632	-	see also 14147 line
32269	DGKA	NM_001345.3	1225	gaccggatcgtaaaaatagcaaa	141633	-	see also 14147 line

図46 (続き)

907

32270	DGKB	NM_004080.1	2045	gccatcgacgaatagagaaaaa	141716	-	see also 14148 line
32271	DGKB	NM_004080.1	2043	aagccatcgacgaatagagaaaa	141714	-	see also 14148 line
32272	DGKB	NM_001346.1	650	accacatgagccgagtagctat	141727	-	see also 891 line
32273	DGKG	NM_001346.1	651	ccacatgagccgagtagctatg	141728	-	see also 891 line
32274	DKFp566	NM_020116.2	937	atcctaattggcgacgacatatct	141775	-	see also 14149 line
32275	DKFp566	NM_020116.2	2895	atcctagatggagacactcaataa	141827	-	see also 14149 line
32276	DKFp566	NM_020116.2	2896	tactagatggagacactcaataa	141828	-	see also 14149 line
32277	G0123	NM_013386.2	1419	tggcctcttttcgacgaattattt	141872	-	see also 14150 line
32278	DKFp586	NM_013386.2	803	tgcagattcaagggttcaaaatca	141844	-	see also 14150 line
32279	DLK1	NM_003836.3	470	tggacgatggcctctatgaatgc	141884	-	see also 14151 line
32280	DLK1	NM_003836.3	394	gacggagagctctgtgatagaga	141883	-	see also 14151 line
32281	DLL1	NM_005618.2	2429	accagtcggtgtaogtcatatcc	141903	-	see also 14152 line
32282	DLL1	NM_005618.2	1428	tgcggacggccctgtctttaacg	141894	-	see also 14152 line
32283	DLL1	NM_005618.2	1427	gtcgagacggccctgtctttaac	141893	-	see also 14152 line
32284	DLL3	NM_016941.1	1674	gtcggagctgctcgtatgattgg	141908	-	see also 14153 line
32285	DLL3	NM_016941.1	631	accgctcgaggagcaaatgtgagg	141906	-	see also 14153 line
32286	DLL4	NM_019074.2	2268	aagccagagtgctcgatgatcagc	141931	-	see also 14154 line
32287	DLL4	NM_019074.2	1380	tactatgctcgtcgaatgtgaaca	141923	-	see also 14154 line
32288	DMP1	NM_004407.1	1201	cccgaccccaacaactagtattgt	141948	-	see also 14155 line
32289	DMP1	NM_004407.1	1200	cccgaccccaacaactagtattgt	141947	-	see also 14155 line
32290	DNER	NM_139072.2	2122	ggcgcatcgccgcatgaatac	141988	-	see also 9657 line
32291	DNER	NM_139072.2	1702	acctgttaatggctatgagtg	141982	-	see also 9657 line
32292	DSC1	NM_004948.2	2302	aagagacgtttagaccacaatgtaa	142051	-	see also 14157 line
32293	DSC1	NM_004948.2	1973	aagcatcacgcaccctcaaatga	142041	-	see also 14157 line
32294	DSC2	NM_004949.2	503	gacccctgcgactttaatttg	142074	-	see also 14158 line
32295	DSC2	NM_004949.2	925	ctgacacggcccaaaactatacc	142088	-	see also 14158 line
32296	DSC2	NM_004949.2	504	acctcgcatcttaattatg	142075	-	see also 14158 line
32297	DSC3	NM_001941.2	1831	gggtataccgacatttttagctgt	142215	-	see also 14159 line
32298	DSC3	NM_001941.2	1828	atgggataccgacatttttagc	142214	-	see also 14159 line
32299	DSG1	NM_001942.1	1813	aacggagagccaaagattgttctc	142302	-	see also 14160 line
32300	DSG1	NM_001942.1	2870	tgcgagatgggtcgaaatgttata	142335	-	see also 14160 line
32301	DSG2	NM_001943.1	874	aagttacgcgataaaaagtcttc	142376	-	see also 14161 line
32302	DSG2	NM_001943.1	431	accttagagctacgacttaagg	142358	-	see also 14161 line
32303	DSG3	NM_001944.1	3025	agctacaggggtcacatactatg	142525	-	see also 1239 line
32304	DSG3	NM_001944.1	1511	tctacagggcaggtatgttta	142482	-	see also 1239 line
32305	DSG3	NM_001944.1	1518	ggcacgttatgttagagtacc	142484	-	see also 1239 line
32306	DSG4	NM_177986.2	2573	ctccctgagctctattgtttgt	142606	-	see also 10174 line
32307	DSG4	NM_177986.2	2519	aaggtcgaccagccaagtgc	142605	-	see also 10174 line
32308	DSG4	NM_177986.2	994	ctgatacgtattacaagcaattga	142560	-	see also 10174 line

図 46 (続き)

908

32309	DUOX1	NM_017434.3	2089	ctctgttgctgactattttg	142641	-	see also 14164 line
32310	DUOX1	NM_017434.3	2197	ccggctccggatgagaaattca	142643	-	see also 14164 line
32311	DUOX2	NM_014080.3	310	agcgtatgacggctggttaac	142653	-	see also 14165 line
32312	DUOX2	NM_014080.3	2773	aggtaaatccctgctaagtgtt	142659	-	see also 14165 line
32313	EDEM1	NM_014674.1	1898	aggccgaacccatcagtgtaaa	142714	-	see also 5857 line
32314	EDEM1	NM_014674.1	1070	aacctccggagcaatgatcacgg	142691	-	see also 5857 line
32315	EDL3	NM_005711.3	702	taccgagggatcattctatagg	142725	-	see also 14167 line
32316	EDL3	NM_005711.3	990	ccctactatcagctcftaataa	142735	-	see also 14167 line
32317	EDL3	NM_005711.3	698	agcataccaggagggatatactca	142724	-	see also 14167 line
32318	EFCHP1	NM_022351.2	367	gtcgatcttctcgacatactga	142764	-	see also 8342 line
32319	EFCHP1	NM_022351.2	890	agcggccaggcttattagaaga	142778	-	see also 8342 line
32320	EFEMP1	NM_004105.2	820	ggccacaagaatcgctgaataca	142809	-	see also 2773 line
32321	EFEMP1	NM_004105.2	1218	ttccgtgttatccacgaatcc	142822	-	see also 2773 line
32322	EFEMP1	NM_004105.2	1338	tacatgagcatccgcgtcgtatag	142825	-	see also 2773 line
32323	EFEMP2	NM_016938.1	1189	gtctaccccgctcctacaatgc	142839	-	see also 14169 line
32324	EFEMP2	NM_016938.1	676	aacaaccgctcctgtgtgtgt	142837	-	see also 14169 line
32325	EFHC1	NM_018100.1	1603	accggttcattccttgatataca	142901	-	see also 14170 line
32326	EFHC1	NM_018100.1	1153	ctcgacggtattacaagaagaag	142889	-	see also 14170 line
32327	EGF	NM_001963.2	2963	agcatgtatcctcgtgtgttttc	142987	-	see also 14171 line
32328	EGF	NM_001963.2	2734	gtgttgctgctgaagaatttta	142980	-	see also 14171 line
32329	EGF	NM_001963.2	2737	ttcgtgtcgtgaaggtttttga	142981	-	see also 14171 line
32330	EGFL6	NM_015507.2	876	tggacgatatacgtatgatagata	143020	-	see also 14172 line
32331	EGFL6	NM_015507.2	1663	gtcgggaactctgaggtgtgt	143036	-	see also 14172 line
32332	EGFL7	NM_016215.2	502	agcacctaccgaaccatctatag	143040	-	see also 14173 line
32333	EGFL9	NM_023932.1	545	cacctgccttgaaggcataaac	143042	-	see also 14174 line
32334	ELA1	NM_001971.3	394	ccagagcgttaccctccaatgc	143050	-	see also 14175 line
32335	ELA1	NM_001971.3	160	ctggagggtcccggtatcacacc	143045	-	see also 14175 line
32336	EML2	NM_012155.1	287	ggcctcgtagcccgctgctataca	143061	-	see also 14176 line
32337	EML2	NM_012155.1	264	accggggagatagtgactttgt	143060	-	see also 14176 line
32338	EMR1	NM_001974.3	1577	tggagtgttgggggcoataatga	143117	-	see also 1257 line
32339	EMR1	NM_001974.3	1315	cggctgttcggacgggaacttta	143105	-	see also 1257 line
32340	EMR2	NM_013447.2	2212	ttcctgttgcaattgatcaaac	143147	-	see also 14178 line
32341	EMR2	NM_013447.2	2213	tctcgtggccaattgatcaaac	143148	-	see also 14178 line
32342	EMR3	NM_032571.2	815	ctcaagcgtattacagacaattgc	143167	-	see also 14179 line
32343	EMR3	NM_032571.2	793	aacgatatgtgacttatgaaac	143166	-	see also 14179 line
32344	EPS15	NM_001981.1	2069	caggcaatctactgactcttttg	143234	-	see also 1263 line
32345	EPS15	NM_001981.1	2329	ctgtcagcaagcagtgattataca	143239	-	see also 1263 line
32346	EPS15R	NM_021235.1	294	ggacgatccaccgcctcaatttc	143267	-	see also 14181 line
32347	EPS15R	NM_021235.1	995	aagacaattcggcttagctatg	143271	-	see also 14181 line
32348	ERO1L	NM_014584.1	1190	ttcgagcgccagattttcaact	143329	-	see also 5764 line
32349	ERO1L	NM_014584.1	1353	aggaccttcgactgacttttaga	143332	-	see also 5764 line
32350	F10	NM_000504.2	356	acctgttgaagagattcgaagg	143344	-	see also 14183 line
32351	F10	NM_000504.2	1466	gtcataagctcctctccataaa	143346	-	see also 14183 line
32352	F12	NM_000505.2	213	ggcagctgtaccacaaatgtacc	143353	-	see also 14184 line

909

図46 (続き)

32353	F12	NM_000505.2	123	ccccaaaggagcataagtaaaaa	143350	-	see also 14184 line
32354	F13A1	NM_000129.2	1594	cctgatgtacaggagctaaaaag	143395	-	see also 115 line
32355	F13A1	NM_000129.2	986	aagcgttgacattctattggaat	143381	-	see also 115 line
32356	F2	NM_000506.2	1327	aaggtaacagcgaacacattgaaa	143413	-	see also 14186 line
32357	F2	NM_000506.2	311	aggacgcctcgagataagcttgc	143403	-	see also 14186 line
32358	F7	NM_000131.2	803	cggccactgttttcgacaaaatc	143424	-	see also 14187 line
32359	F7	NM_000131.2	804	ggccactgttttgcacaaaatca	143425	-	see also 14187 line
32360	F9	NM_000133.2	1011	aacagctacgttacacactattg	143467	-	see also 14188 line
32361	F9	NM_000133.2	495	tctgtactgagggatattcgact	143446	-	see also 14188 line
32362	FAT	NM_005245.1	10906	caggacgtgtatgatactctaac	143803	-	see also 14189 line
32363	FAT	NM_005245.1	10382	ttctcgaccggagaaacgatttca	143789	-	see also 14189 line
32364	FAT2	NM_001447.1	1742	tggcagtagggaataatcgataat	143914	-	see also 14190 line
32365	FAT2	NM_001447.1	2881	cgcagtgaaagtcgataatgttc	143946	-	see also 14190 line
32366	FBLN1	NM_001996.2	303	gccatattctacggaatccaaag	144139	-	see also 1279 line
32367	FBLN1	NM_001996.2	937	gacgagtgtaggagtggtattca	144145	-	see also 1279 line
32368	FBLN1	NM_001996.2	1052	ctctaggcaactgtattgatac	144150	-	see also 1279 line
32369	FBLN2	NM_001998.1	1668	gtcgtgtgagttccaatctcaacc	144173	-	see also 14192 line
32370	FBLN2	NM_001998.1	3229	ttcaggtgtctcccaactatgt	144183	-	see also 14192 line
32371	FBLN5	NM_006329.2	844	gtgacagagtggtgcaacagattc	144195	-	see also 4433 line
32372	FBLN5	NM_006329.2	845	gtgacagagtggtgcaacagattc	144196	-	see also 4433 line
32373	FBLN1	NM_000138.2	5413	taccggtttaccggttgatattg	144342	-	see also 122 line
32374	FBLN1	NM_000138.2	2355	accttctggagacccataaatgt	144277	-	see also 122 line
32375	FBLN1	NM_000138.2	5414	acccgtttaccggttgatattga	144343	-	see also 122 line
32376	FBLN2	NM_001999.2	7197	tagtcgcaatctcgtcaactaagt	144574	-	see also 1282 line
32377	FBLN2	NM_001999.2	7201	cgcgaatctcgtcaactaagtcaga	144576	-	see also 1282 line
32378	FBLN3	NM_032447.2	2446	cacggatgtgtgagacatcaacg	144599	-	see also 14195 line
32379	FBLN3	NM_032447.2	3912	gtgacgtgtgcaactgtattaacact	144609	-	see also 14195 line
32380	FCN1	NM_002003.2	1013	tgcggcggaagggtgacaaatata	144646	-	see also 14196 line
32381	FCN1	NM_002003.2	932	cgcgcactgtatgcttcaaac	144643	-	see also 14196 line
32382	FBL-6	NM_031935.1	11226	cacctggagtcggaatctatct	144987	-	see also 14197 line
32383	FBL-6	NM_031935.1	2157	ttgcctggagccgttaacgatatg	144714	-	see also 14197 line
32384	FKBP10	NM_021939.2	1166	ctctgcgtgtataatcttcaacg	145143	-	see also 14198 line
32385	FKBP10	NM_021939.2	1291	ttcgataccattacaactgttct	145148	-	see also 14198 line
32386	FKBP14	NM_017946.1	757	tacataaacaacgatgattat	145105	-	see also 14199 line
32387	FKBP14	NM_017946.1	293	gtccactatgaagctacttaga	145150	-	see also 14199 line
32388	FKBP7	NM_016105.2	594	tccaccggtgtctacattgattt	145181	-	see also 6663 line
32389	FKBP7	NM_016105.2	287	tggctaaagacggctcgaaatttc	145167	-	see also 6663 line
32390	FKBP9	NM_007270.2	1041	cgcacgttttgacgtacattgg	145207	-	see also 14201 line
32391	FKBP9	NM_007270.2	878	tgcattattggacgtccataacc	145202	-	see also 14201 line
32392	FKBP9	NM_007270.2	1033	ctcgaaacccacgctttgacacg	145206	-	see also 14201 line
32393	FLJ11767	NM_024593.2	218	ttggacttggatgtaattgattt	145218	-	see also 14202 line
32394	FLJ11767	NM_024593.2	106	ctgacggacacgttaaccacaaa	145215	-	see also 14202 line
32395	FLJ12443	NM_024830.3	1593	cccgatcagacacatttggaaa	145240	-	see also 14203 line
32396	FLJ12443	NM_024830.3	760	acctgcctaattacccttcaaac	145232	-	see also 14203 line

910

図46 (続き)

32397	FLJ13397	NM_024948.1	277	ccggtctctcggacacatttc	145243	-	see also 8816 line
32398	FLJ13397	NM_024948.1	1534	cagatcgtctctcactaat	145288	-	see also 8816 line
32399	FLJ13612	NM_025202.2	688	gtcctcggcagtaagtgaag	145291	-	see also 14204 line
32400	FLJ13612	NM_025202.2	788	ctcaaggccaactcaatata	145293	-	see also 14204 line
32401	FLJ20047	NM_017639.1	620	tgttggaagcacctgttaca	145303	-	see also 14205 line
32402	FLJ20047	NM_017639.1	3002	gtgtacatccatgaacttaaa	145359	-	see also 14205 line
32403	FLJ20080	NM_017657.2	453	ttcgataccagattactcg	145366	-	see also 7083 line
32404	FLJ20080	NM_017657.2	2264	ccgcctggcgaatttcgaag	145402	-	see also 7083 line
32405	FLJ20254	NM_017727.2	991	cagctotaccccgactgaaat	145426	-	see also 14207 line
32406	FLJ20254	NM_017727.2	766	aaactaacgagggaactgaaat	145423	-	see also 14207 line
32407	FLJ20254	NM_017727.2	1904	ggctttgctacaggaacttaca	145431	-	see also 14207 line
32408	FLJ20298	NM_017752.2	1686	ggctactaatcgtactattata	145480	-	see also 14208 line
32409	FLJ20298	NM_017752.2	1190	cactacagagatcttagctata	145457	-	see also 14208 line
32410	FLJ22843	NM_025184.2	478	ccggcgtcagggattactcttc	145542	-	see also 14209 line
32411	FLJ22843	NM_025184.2	479	cgccgtcagggattactcttc	145543	-	see also 14209 line
32412	FLJ23588	NM_022785.2	1468	aaaccgatggaccgatacaaga	145676	-	see also 14210 line
32413	FLJ23588	NM_022785.2	1778	agggcgcattggccgaaataatt	145688	-	see also 14210 line
32414	FLJ25200	NM_144715.2	1237	agcaatcgacggagcaccattagg	145780	-	see also 9733 line
32415	FLJ25200	NM_144715.2	893	atgcgaatcagaccatatactct	145771	-	see also 9733 line
32416	FLJ25818	NM_173503.1	1040	gtggccgatgcaactgtatttaa	145851	-	see also 14211 line
32417	FLJ25818	NM_173503.1	1105	tgcccttgaacacgcgaagaaga	145857	-	see also 14211 line
32418	FLJ30681	NM_133459.1	164	agcaaatcgcgacgactaaata	145870	-	see also 14212 line
32419	FLJ30681	NM_133459.1	135	aggacggcagacagagaatctgc	145869	-	see also 14212 line
32420	FLJ31455	NM_144964.1	717	gactcagaacacgctcttggaaga	145891	-	see also 9747 line
32421	FLJ31455	NM_144964.1	454	gactatgatgatgttgatgtg	145886	-	see also 9747 line
32422	FLJ31614	NM_15273.2	2426	atctaaccgggacccaattccaaa	145954	-	see also 14214 line
32423	FLJ31614	NM_15273.2	1293	agctaacccgggaagctacatgaca	145923	-	see also 14214 line
32424	FLJ32009	NM_152718.1	1748	gacgacaacggggtgagtttcc	145965	-	see also 14215 line
32425	FLJ32009	NM_152718.1	677	aaccggcactcctgtgtagatgt	145958	-	see also 14215 line
32426	FLJ34588	NM_152726.1	518	ttgcttaaatcctcactaaacc	145978	-	see also 9932 line
32427	FLJ34588	NM_152726.1	368	gagcaaatggaacgtaaaacttc	145974	-	see also 9932 line
32428	FLJ37440	NM_153214.1	530	ccgcagacggcagaagtgttg	145993	-	see also 14217 line
32429	FLJ37440	NM_153214.1	567	tggatcacgaagtcactttacc	145995	-	see also 14217 line
32430	FLJ37874	NM_182603.1	724	agcagtgccgacgaagttttaa	146009	-	see also 14218 line
32431	FLJ37874	NM_182603.1	448	gaccgggagtgactcctttaca	146000	-	see also 14218 line
32432	FLJ39116	NM_152635.1	590	ccctggaggtactatgtgtatc	146027	-	see also 14219 line
32433	FLJ39116	NM_152635.1	286	atccttgctcgttaccacgc	146025	-	see also 14219 line
32434	FLJ39155	NM_152403.2	2829	cagttacgtcgatgacaacc	146086	-	see also 9854 line
32435	FLJ39155	NM_152403.2	2955	gagaccacaagcgactcattt	146091	-	see also 9854 line
32436	FLJ40342	NM_152347.3	3091	tccgatattgacaattctcaa	146186	-	see also 14221 line
32437	FLJ40342	NM_152347.3	796	agcgttacaagacttcataacc	146110	-	see also 14221 line
32438	FLRT1	NM_013280.3	2332	ggggatccccgacatactac	146198	-	see also 14222 line
32439	FLRT1	NM_013280.3	661	acgtgacggtcatcactaac	146195	-	see also 14222 line
32440	FLRT3	NM_013281.2	1078	agctctatcgactggatgtctc	146224	-	see also 5384 line

図46 (続き)

911

32441	FLRT3	NM_013281.2	1763	aactgaaccccttogaagtaca	146251	-	see also 5384 line
32442	FLRT3	NM_013281.2	1207	gggtacgtgactgggtacaatca	146232	-	see also 5384 line
32443	FRAS1	NM_025074.2	11962	gagggcgtttacacgtttcaagag	146508	-	see also 8843 line
32444	FRAS1	NM_025074.2	8226	tgccgcgagtggtgtgatttcg	146404	-	see also 8843 line
32445	FREQ	NM_014286.2	405	ctctacgacttggacaatgatgg	146514	-	see also 5593 line
32446	FREQ	NM_014286.2	229	tcagaagatctacaagcaatcc	146513	-	see also 5593 line
32447	FSTL1	NM_007085.3	167	aagatctgtgccaatgttttg	146516	-	see also 14225 line
32448	FSTL1	NM_007085.3	781	tgccctgagagatgaacgtatg	146522	-	see also 14225 line
32449	GAS6	NM_000820.1	431	tggtctctctacacccaaaaact	146528	-	see also 14226 line
32450	GAS6	NM_000820.1	375	aacgaccccgagacggattatt	146526	-	see also 14226 line
32451	GAS6	NM_000820.1	1392	aacctgacccgtggaggtattcc	146534	-	see also 14226 line
32452	GCA	NM_012198.2	202	agctatactctcgtatgatact	146540	-	see also 14227 line
32453	GCA	NM_012198.2	656	gtgaagcttcgagcattgacaga	146554	-	see also 14227 line
32454	GPD2	NM_000408.1	2069	agcgtgtattagagagatcaat	146615	-	see also 323 line
32455	GRN	NM_002087.1	439	gcccgtatagtcagttcgaatgc	146630	-	see also 14229 line
32456	GRN	NM_002087.1	470	ctccacgtgtgtgtattgtctg	146631	-	see also 14229 line
32457	GRN	NM_002087.1	818	gtgtgaactgataccagagtaagt	146632	-	see also 14229 line
32458	GUCA1B	NM_002098.2	100	agcggcacactttatgcatga	146642	-	see also 14230 line
32459	GUCA1B	NM_002098.2	95	gcccacagcggcacactctttatg	146640	-	see also 14230 line
32460	HGF	NM_000601.3	1951	tacgagtgccacatctctatata	146718	-	see also 14231 line
32461	HGF	NM_000601.3	923	aacatgctgcagacaatactatga	146675	-	see also 14231 line
32462	HGF	NM_000601.3	1533	acgaaacaattgcgagttgtaaa	146705	-	see also 14231 line
32463	HPCAL4	NM_016257.2	419	agctcaactggcctttgagatg	146728	-	see also 14232 line
32464	HPCAL4	NM_016257.2	563	agcagcgtgtggacaagatcttc	146729	-	see also 14232 line
32465	HRC	NM_002132.1	987	caccaaggccacgggattgaaga	146732	-	see also 1383 line
32466	B	NM_013292.2	503	cggcaacgtcgactacaaaaaca	146747	-	see also 14234 line
32467	B	NM_013292.2	502	gcgggaacgtcgactacaaaaaac	146746	-	see also 14234 line
32468	IPO4	NM_024658.2	785	tgcgatacgcatacgtattctct	146755	-	see also 8687 line
32469	IPO4	NM_024658.2	990	aagcatttcgctgtacaagtgt	146758	-	see also 8687 line
32470	ITI1	NM_002215.1	343	aagcatttatcgagacataaa	146778	-	see also 14236 line
32471	ITI1	NM_002215.1	213	ctctcgcttcggccactatgttg	146776	-	see also 14236 line
32472	ITSN1	NM_003024.1	1038	ttcgatctgcagtggtatatct	146833	-	see also 2024 line
32473	ITSN1	NM_003024.1	4736	caattgaccggcgtctactct	146900	-	see also 2024 line
32474	ITSN2	NM_006277.1	1602	aacgaacaacgtcgttagaatgg	146937	-	see also 4363 line
32475	ITSN2	NM_006277.1	360	caggtgatcaagcacgtaatttt	146909	-	see also 4363 line
32476	ITSN2	NM_006277.1	2454	aacgaagaagataaggatactttg	146958	-	see also 4363 line
32477	JAG1	NM_000214.1	2692	tgttcaacggcgagtcotttacg	147078	-	see also 162 line
32478	JAG1	NM_000214.1	934	cggcgcttgccacactttgagat	147029	-	see also 162 line
32479	JAG2	NM_002226.3	991	gtcgcatcgccgcatgatcaacc	147112	-	see also 14240 line
32480	JAG2	NM_002226.3	902	tgcgctgcagagaaactactac	147113	-	see also 14240 line
32481	KCNIP1	NM_014592.2	861	ttgtaacgcgtctgtcgatttta	147139	-	see also 14241 line
32482	KCNIP1	NM_014592.2	865	aaccgctctgtcgattttattga	147140	-	see also 14241 line

912

図46 (続き)

32483	KONIP2	NM_014591.3	602	agcgtggacgatgaattgaatt	147156	-	see also 14242 line
32484	KONIP2	NM_014591.3	601	cagcgtggacgatgaattgaat	147155	-	see also 14242 line
32485	KIAA0494	NM_014774.1	1863	aacgagacagaatgaattcttac	147188	-	see also 14243 line
32486	KIAA0494	NM_014774.1	985	agcgcaaaagagctcaatgcattg	147168	-	see also 14243 line
32487	KIAA0676	NM_198868.1	1051	gacgcttgcacccatcatcacc	147211	-	see also 14244 line
32488	KIAA0676	NM_198868.1	2609	ctggagcagctaccggattgatgc	147222	-	see also 14244 line
32489	KIAA0980	NM_025176.3	2411	cgccacagatgcgtctcgttgg	147239	-	see also 14245 line
32490	KIAA0980	NM_025176.3	193	accatttcgccagggttaacttt	147228	-	see also 14245 line
32491	KIP3	NM_054113.1	119	agctcgtccctccgactatacc	147258	-	see also 14246 line
32492	KIP3	NM_054113.1	43	gcgtatcaggactgcacattttt	147256	-	see also 14246 line
32493	LALBA	NM_002289.1	241	tcagatcagtaataagctttgg	147267	-	see also 14247 line
32494	LALBA	NM_002289.1	240	ttccagatcagtaataagctttg	147266	-	see also 14247 line
32495	LALBA	NM_002289.1	76	tctggcccaagcaattccacaaa	147260	-	see also 14247 line
32496	LDLR	NM_000527.2	2156	accccaactcggcccaagtttacc	147295	-	see also 14248 line
32497	LDLR	NM_000527.2	795	cacctgcgcctgcacgaattcc	147271	-	see also 14248 line
32498	LETM1	NM_012318.1	2147	ggcagatcagtggtgtgatctcg	147311	-	see also 5274 line
32499	LETM1	NM_012318.1	2309	tggccgcagcactggatgaataac	147312	-	see also 5274 line
32500	LOC28609	NM_181723.1	653	ctcatcgaagctatttcgaatac	147328	-	see also 14250 line
32501	LOC28609	NM_181723.1	651	ggctcctcgaagctatttcgaatac	147327	-	see also 14250 line
32502	LOC28609	NM_181723.1	656	atcgaagctatttcgaatactta	147329	-	see also 14250 line
32503	LOC63928	NM_022097.1	607	acccctggagagacgcgaattata	147356	-	see also 14251 line
32504	LOC63928	NM_022097.1	608	ccccctggagagacgcgaattatag	147357	-	see also 14251 line
32505	LPA	NM_005577.1	11828	atcgagagatcccatatactat	147371	-	see also 14252 line
32506	LPA	NM_005577.1	10642	ttcgtccctccgaattgtattct	147363	-	see also 14252 line
32507	LRP1	NM_002332.1	679	atccagcccaaacgagacataact	147379	-	see also 1491 line
32508	LRP1	NM_002332.1	10466	tgcacggctagccagttgtatg	147480	-	see also 1491 line
32509	LRP2	NM_004525.1	6619	aagttctcggagcaataactact	147731	-	see also 14254 line
32510	LRP2	NM_004525.1	3569	ttgcccaatcctatgatgtattg	147634	-	see also 14254 line
32511	LRP2	NM_004525.1	1131	agccgtaccgtgtgtgatttga	147545	-	see also 14254 line
32512	LRP8	NM_004631.2	1881	ccctcgcgagggttcattgtattg	147954	-	see also 1416 line
32513	LRP8	NM_004631.2	1885	tgcgagggttcattgtattgtct	147956	-	see also 1416 line
32514	LTBP3	NM_021070.2	2849	ggggcgaccactgcgaatctac	147979	-	see also 14256 line
32515	LTBP3	NM_021070.2	2400	cagcaacacgcagggatcttcc	147976	-	see also 14256 line
32516	MAN1B1	NM_007230.1	119	ggccctcactgggaacttcact	147981	-	see also 14257 line
32517	MAN1B1	NM_007230.1	1216	ccgctctcacaggaggaagaag	147994	-	see also 14257 line
32518	MAN1C1	NM_020379.1	920	acgaactcgtcactaacacaaa	148009	-	see also 14258 line
32519	MAN1C1	NM_020379.1	944	atggctacaggaggaatacattgc	148011	-	see also 14258 line
32520	MASP1	NM_001879.3	110	caccgtggagcttaacaataatgt	148027	-	see also 14259 line
32521	MASP1	NM_001879.3	108	cacacogtggagcttaacaataat	148026	-	see also 14259 line
32522	MASP2	NM_006610.2	494	accaactggcggtttctactgc	148081	-	see also 14260 line
32523	MASP2	NM_006610.2	320	ccccctggcaaggacacattctac	148078	-	see also 14260 line
32524	MATN2	NM_002380.2	1196	aacgtgcacaaagatagactact	148136	-	see also 1534 line
32525	MATN2	NM_002380.2	677	acgggacacagggcatcctaact	148130	-	see also 1534 line
32526	MATN4	NM_003833.2	1071	ggcgtgtcgtccacaaaacttcg	148166	-	see also 2613 line

913

図46 (続き)

32527	MCFD2	NM_139279.2	226	tgcacgacccaagagacataatg	148169	-	see also 14263 line
32528	MCFD2	NM_139279.2	197	cgccagcatggcctggataaga	148168	-	see also 14263 line
32529	MGSC	NM_052901.1	535	aagcatccacgacatcttgatgt	148180	-	see also 14264 line
32530	MGSC	NM_052901.1	103	cagacccgcttcagctacttga	148173	-	see also 14264 line
32531	MGC11256	NM_024324.2	987	aacgaaaactccacaatactcc	148195	-	see also 14265 line
32532	MGC11256	NM_024324.2	401	gagcgaatctcgaactattcg	148187	-	see also 14265 line
32533	MGC12458	NM_032328.1	232	ctggatacattgattcgaaaaa	148200	-	see also 9164 line
32534	MGC12458	NM_032328.1	233	tggatacattcgattcgaaaaa	148201	-	see also 9164 line
32535	MGC2615	NM_024103.1	1022	ccccagtcagctatcaagttc	148221	-	see also 14267 line
32536	MGC2615	NM_024103.1	1023	ccccagtcagctatcaagttc	148222	-	see also 14267 line
32537	MGC2615	NM_024103.1	1400	tcctggcctcggtaccatctcc	148225	-	see also 14267 line
32538	MGC26610	NM_144647.2	281	tggatgcagataataatgaacc	148233	-	see also 9724 line
32539	MGC26610	NM_144647.2	379	ttccggaggttgataaagatgg	148235	-	see also 9724 line
32540	MGC39650	NM_152465.1	941	gccagacgtagcccgatcattaa	148252	-	see also 14269 line
32541	MGC39650	NM_152465.1	203	caggacagcgtcaaatgaaa	148245	-	see also 14269 line
32542	MGC39821	NM_182576.1	628	agcgatgatgacccgaatgaaa	148259	-	see also 14270 line
32543	MGC39821	NM_182576.1	629	gcgatgatgacccgaatgaaa	148260	-	see also 14270 line
32544	MGC4170	NM_024312.3	1264	atctcagtgagcaaatgtaaca	148304	-	see also 14271 line
32545	MGC4170	NM_024312.3	397	tgcgattgacgtgtttacacc	148267	-	see also 14271 line
32546	MGC4266	NM_032680.2	791	gagttcactactgatttttagtca	148385	-	see also 14272 line
32547	MGC4266	NM_032680.2	789	aggagttcactactgatttttagt	148384	-	see also 14272 line
32548	MGC4342	NM_024329.3	732	agctcagtcacaccttaagtag	148398	-	see also 14273 line
32549	MGC45840	NM_173584.1	323	ctcttgcagagtgctctgac	148399	-	-
32550	MGC50831	NM_175924.2	435	agccctgtctggggtagattac	148407	-	see also 10159 line
32551	MGC50831	NM_175924.2	484	ccgagcagatctcgtgataaatg	148409	-	see also 10159 line
32552	MGP	NM_000900.1	77	gccccttagaggtagtaacttt	148417	-	see also 14274 line
32553	MGP	NM_000900.1	85	agcggtagtaactttgtttatg	148418	-	see also 14274 line
32554	MGP	NM_000900.1	234	agcctgtccacagagctcaatagg	148423	-	see also 14274 line
32555	MLC1SA	NM_002475.2	490	aggggttcgtgttttgacaag	148430	-	see also 14275 line
32556	MMP1	NM_002421.2	902	gtgtgacagtaagtaacctttg	148447	-	see also 1563 line
32557	MMP1	NM_002421.2	997	acccggaagttagctcaatttc	148452	-	see also 1563 line
32558	MMP11	NM_005940.2	772	cagggcgttcaacacctatag	148463	-	see also 14277 line
32559	MMP11	NM_005940.2	263	ggcgtgcocagccatctgtagtg	148460	-	see also 14277 line
32560	MMP12	NM_002426.1	610	ggcgaattctggactacacattc	148490	-	see also 14278 line
32561	MMP12	NM_002426.1	330	gcccgtatggggaaacattata	148483	-	see also 14278 line
32562	MMP12	NM_002426.1	329	ggcccgtatggggaaacattat	148482	-	see also 14278 line
32563	MMP13	NM_002427.2	1388	atctggaataacgattattctcg	148545	-	see also 1564 line
32564	MMP13	NM_002427.2	1407	ttcggctcatgccagcaaatcc	148546	-	see also 1564 line
32565	MMP13	NM_002427.2	1271	gactatccagactaatagaaga	148539	-	see also 1564 line
32566	MMP2	NM_004530.1	378	cgccgtcgcctcatcaagttc	148548	-	see also 3086 line
32567	MMP2	NM_004530.1	379	ggcgtcgcctcatcaagttcc	148549	-	see also 3086 line
32568	MMP3	NM_002422.2	1077	aggcgtggatgccgcattgaag	148579	-	see also 14281 line
32569	MMP3	NM_002422.2	809	tcggcctgtctcaagatgata	148575	-	see also 14281 line
32570	MMP7	NM_002423.2	272	ctcccgctcatagaataatgc	148597	-	see also 14282 line

914

図46 (続き)

32571	MMP7	NM_002423.2	378	tacaggatcgatcatatctcg	148601	-	see also 14282 line		
32572	MMP7	NM_002423.2	397	ctcgagacttaccattataa	148602	-	see also 14282 line		
32573	MMP8	NM_002424.1	686	ctccgaatttaccactgtttc	148622	-	see also 14283 line		
32574	MMP8	NM_002424.1	241	atgtgatcttgaaagcttaaa	148612	-	see also 14283 line		
32575	MRC1	NM_002438.1	1370	tggatcgcttgaatgacattaa	148669	-	see also 1570 line		
32576	MRC1	NM_002438.1	1204	gcgatgctccgctgactgttaca	148662	-	see also 1570 line		
32577	MUCDHL	NM_017717.3	1509	ctcgccatcacatataagaata	148762	-	see also 14285 line		
32578	MUCDHL	NM_017717.3	1511	cggccatcacatatacgattacc	148764	-	see also 14285 line		
32579	MYL2	NM_000432.1	248	ctccgggttccaaatttaattact	148780	-	see also 14286 line		
32580	MYL2	NM_000432.1	367	gtctgaaggctgattactctcg	148785	-	see also 14286 line		
32581	MYL3	NM_000258.1	242	acccaagtgtgagatgaagatca	148787	-	-	translation	cardiomyopathy(アルコール性心筋症)
								structural constituent of	
								muscle	
32582	MYL4	NM_002476.2	270	gaaccgactggagagatgaaga	148789	-	-		-
32583	MYL4	NM_002476.2	217	ttcactccgaccagattgaaga	148788	-	see also 32582 line		
32584	MYL6	NM_021019.2	432	ggcatgaggagacagcaggtgtg	148790	-	-		-
32585	MYL7	NM_021223.1	71	gtggtttcccaacgtcttttc	148791	-	-		-
32586	MYL2PL	NM_138403.3	524	aggccgatgtcatcaaaagaaaaa	148793	-	see also 14287 line		
32587	MYL2PL	NM_138403.3	525	ggccgatgtcatcaaaagaaaaa	148794	-	see also 14287 line		
32588	NELL1	NM_006157.1	1087	aagggtctgccaccacaaatgtat	148821	-	see also 14288 line		
32589	NELL1	NM_006157.1	1092	ctcgccacacaaatgtatctatg	148823	-	see also 14288 line		
32590	NELL2	NM_006159.1	98	tggagtctgggtcttactgaga	148863	-	see also 4261 line		
32591	NID	NM_002508.1	1517	ttcccgagaccgttggatatatt	148941	-	see also 14290 line		
32592	NID	NM_002508.1	1460	acctcaacttactagtagtaag	148939	-	see also 14290 line		
32593	NIN	NM_016350.3	5604	aacatcagagtgagagcttaaaag	149088	-	see also 6829 line		
32594	NIN	NM_016350.3	1052	gacgtacaatgagtgtagaaga	149004	-	see also 6829 line		
32595	NIN	NM_016350.3	5531	gtcggataagttggcaaaatcaag	149086	-	see also 6829 line		
32596	NKD1	NM_033119.3	807	aagagagagcgccttctgtaatca	149107	-	see also 9369 line		
32597	NKD1	NM_033119.3	989	gagaaaccactactagatctcg	149110	-	see also 9369 line		
32598	NOTCH1	NM_017617.2	6898	ggcgggtccaccagtttgaatgg	149139	-	see also 14293 line		
32599	NOTCH1	NM_017617.2	6148	aagaaacgggggctaaacaagatat	149137	-	see also 14293 line		
32600	NOTCH2	NM_024408.2	6047	cgaacccgagtaactagcttaga	149219	-	see also 8617 line		
32601	NOTCH2	NM_024408.2	3148	ctctgactactcaacacagttaca	149182	-	see also 8617 line		
32602	NOTCH3	NM_000435.1	3366	ggggacctcccttggcttatatgg	149255	-	see also 344 line		
32603	NOTCH3	NM_000435.1	4805	aggtgatggctcggttagtaag	149261	-	see also 344 line		
32604	NOTCH4	NM_004557.2	5917	tgcgataatgcggaggaagatagc	149286	-	see also 3101 line		
32605	NOTCH4	NM_004557.2	5773	tggagacttgctcagtagaactgg	149284	-	see also 3101 line		
32606	NOX5	NM_024505.2	447	ccctatttgactccgtagaagaagt	149291	-	see also 14297 line		
32607	NOX5	NM_024505.2	1827	caactgggcccgtggttctaaagag	149298	-	see also 14297 line		
32608	NOX5	NM_024505.2	2136	agctccataaagtggaacttctc	149302	-	see also 14297 line		
32609	OAZ2	NM_002537.1	712	ccctctcgcccgagatgtggtg	149312	-	see also 1632 line		
32610	OAZ2	NM_002537.1	717	ctcgccagatgtgtatgttctatg	149314	-	see also 1632 line		
32611	PADI1	NM_013358.1	849	ttcccgatgcccgttctcctag	149326	-	see also 5408 line		
32612	PADI1	NM_013358.1	243	tacaaccgcacacgtgtggaaga	149316	-	see also 5408 line		

915

図46 (続き)

32613	PADI1	NM_013358.1	414	tacctactggctcgtatattc	149321	-	see also 5408 line
32614	PADI2	NM_007365.1	649	cgccggatagagatagttctgt	149337	-	see also 14300 line
32615	PADI2	NM_007365.1	1071	aggtctcttcacgtacctaacc	149340	-	see also 14300 line
32616	PADI3	NM_016233.1	173	gacgctggcgtgacatctaca	149345	-	see also 14301 line
32617	PADI3	NM_016233.1	980	gggaacaacacgtgtttgtgg	149349	-	see also 14301 line
32618	PADI4	NM_012387.1	945	gagggtacgcgtgcagttattt	149363	-	see also 14302 line
32619	PADI4	NM_012387.1	946	aggtgtacgcgtgcagttattt	149364	-	see also 14302 line
32620	PADI4	NM_012387.1	951	tacgcgtgcagttatttgaaga	149366	-	see also 14302 line
32621	PATE	NM_138294.1	260	tgttaaccctcgtttaacctca	149382	-	see also 14303 line
32622	PATE	NM_138294.1	259	atgtaaccctcgtttaacctca	149381	-	see also 14303 line
32623	PC-LKC	NM_017675.2	1771	tggtagcggctctacacatc	149398	-	see also 14304 line
32624	PC-LKC	NM_017675.2	2300	cocggacgtgagcctggtattacg	149404	-	see also 14304 line
32625	PCDH10	NM_020815.1	1762	aagcggcaggttggaactgaag	149433	-	see also 7982 line
32626	PCDH12	NM_016580.2	3678	tacaggacgtgcgttaactcaag	149508	-	see also 6923 line
32627	PCDH12	NM_016580.2	1984	cacgtgtacgtcttcataaaa	149482	-	see also 6923 line
32628	PCDH15	NM_033056.2	3362	aacacgagtcacttaataag	149615	-	see also 14307 line
32629	PCDH15	NM_033056.2	2391	accacggggattctaaccttagg	149584	-	see also 14307 line
32630	PCDH16	NM_003737.1	2333	tggcgactctctacacatcc	149705	-	see also 14308 line
32631	PCDH16	NM_003737.1	8485	gtgcgcgagtgcccttgactat	149747	-	see also 14308 line
32632	PCDH17	NM_014459.2	3283	ctcgatgtccataattcagaca	149783	-	see also 14309 line
32633	PCDH17	NM_014459.2	1403	acgttcgccaccgtacagaca	149765	-	see also 14309 line
32634	PCDH18	NM_019035.2	2239	tggccatagtagcagtaataga	149827	-	see also 7669 line
32635	PCDH18	NM_019035.2	3049	ggcgagattctccaatagatag	149854	-	see also 7669 line
32636	PCDH20	NM_022843.2	2273	ctcccggttacagaagtctatg	149904	-	see also 8494 line
32637	PCDH20	NM_022843.2	2274	tcocgggttacagaagtctatgc	149905	-	see also 8494 line
32638	PCDH7	NM_002589.2	4152	ctgttaaacataaacagttaca	149963	-	see also 1669 line
32639	PCDH7	NM_002589.2	2021	gggtcaacgggcagatcgaatac	149920	-	see also 1669 line
32640	PCDH8	NM_002590.2	3050	ggcgtgcacccgtcgtgtaaga	149980	-	see also 1672 line
32641	PCDH8	NM_002590.2	1894	tgcgcagcttcgactatgagacg	149977	-	see also 1672 line
32642	PCDH9	NM_020403.2	1562	aaccgcgctgggttacttaac	150023	-	see also 14313 line
32643	PCDH9	NM_020403.2	3154	gtcgagcgcgctgtactgttc	150082	-	see also 14313 line
32644	PCDH5	NM_018908.2	463	ggcgtctggatttggtattgg	150092	-	see also 14314 line
32645	PCDH5	NM_018908.2	655	cccgaaactaacagggtacagttca	150101	-	see also 14314 line
32646	PCDH1	NM_013340.2	79	tggcgggttacgcgcagaaaaatct	150121	-	see also 14315 line
32647	PCDH1	NM_013340.2	81	ggcgggtacgcgcagaaaaatctt	150122	-	see also 14315 line
32648	PCDH10	NM_018930.2	678	tactgtacgcattcgtgtcttgg	150197	-	see also 14316 line
32649	PCDH10	NM_018930.2	1084	gagacgcgcgtggctgttttaa	150205	-	see also 14316 line
32650	PCDH10	NM_018930.2	863	ttagaacaacgttcaaatcaat	150203	-	see also 14316 line
32651	PCDH11	NM_018931.2	2304	accggttatccctaataatccagg	150218	-	see also 14317 line
32652	PCDH11	NM_018931.2	1097	tgttttagtatccaagatata	150215	-	see also 14317 line
32653	PCDH11	NM_018931.2	771	tggctcgtcgtatttggatgtot	150212	-	see also 14317 line
32654	PCDH12	NM_018932.2	816	aacaacagtgaaactatcctata	150222	-	see also 14318 line
32655	PCDH12	NM_018932.2	2274	ctccagggtcaaatgaattcaaat	150225	-	see also 14318 line
32656	PCDH12	NM_018932.2	2336	caggtagtggaagtcgaagaaat	150227	-	see also 14318 line

図46 (続き)

32657	PCDHB13	NM_018933.2	1365	tctgaataatccgggaaacttt	150230	-	see also 14319 line
32658	PCDHB13	NM_018933.2	2545	tttaacttccccaataactttg	150234	-	see also 14319 line
32659	PCDHB14	NM_018934.2	1041	gaccatactcgtgatcaaga	150266	-	see also 14320 line
32660	PCDHB14	NM_018934.2	14	ggcactcgtatctcgaaaaagg	150235	-	see also 14320 line
32661	PCDHB15	NM_018935.2	235	ctgcagacccggcagttgatatt	150278	-	see also 14321 line
32662	PCDHB15	NM_018935.2	934	atgtcttcgtatgctcatagatat	150296	-	see also 14321 line
32663	PCDHB16	NM_020957.1	2003	agccttggaggagatattagtaaa	150328	-	see also 14322 line
32664	PCDHB16	NM_020957.1	2004	gccttcggagagattagtaaaa	150329	-	see also 14322 line
32665	PCDHB2	NM_018936.2	1181	aactaactatgtogacacttatc	150357	-	see also 14323 line
32666	PCDHB2	NM_018936.2	694	gacagtctcgtggcataatatt	150348	-	see also 14323 line
32667	PCDHB2	NM_018936.2	1168	gacaatctcctcgggaactaat	150355	-	see also 14323 line
32668	PCDHB3	NM_018937.2	355	aacgagctcgtatcatagatgt	150384	-	see also 14324 line
32669	PCDHB3	NM_018937.2	82	tccgagctcaagcgtctatctgt	150361	-	see also 14324 line
32670	PCDHB3	NM_018937.2	351	tacaacgagctcgtatcatag	150363	-	see also 14324 line
32671	PCDHB4	NM_018938.2	77	gcctcagcctattcgtttctct	150393	-	see also 14325 line
32672	PCDHB4	NM_018938.2	79	ctcggagcctattcgtttctct	150394	-	see also 14325 line
32673	PCDHB5	NM_015669.2	1007	gtctcgtcgtcgtgagatttagtc	150442	-	see also 14326 line
32674	PCDHB5	NM_015669.2	457	gacggcaatttgcctctatg	150427	-	see also 14326 line
32675	PCDHB6	NM_018939.2	184	ggcgtctcgtggttttcaagg	150458	-	see also 14327 line
32676	PCDHB6	NM_018939.2	355	tcttgcgagtcagagatataaa	150480	-	see also 14327 line
32677	PCDHB7	NM_018940.2	255	cgcgaacgcctcgtgattttg	150477	-	see also 14328 line
32678	PCDHB7	NM_018940.2	1017	ttctacgcacccaagaatttc	150498	-	see also 14328 line
32679	PCDHB7	NM_018940.2	256	gcgaacgcctcgtgattttgt	150478	-	see also 14328 line
32680	PCDHB8	NM_019120.2	1059	aactttaaggctgatttctga	150511	-	see also 14329 line
32681	PCDHB8	NM_019120.2	2493	accagttaactaataattcagg	150513	-	see also 14329 line
32682	PCDHB9	NM_019119.3	765	tccagtaggtccctattgta	150519	-	see also 14330 line
32683	PCDHB9	NM_019119.3	2358	ttctactctcccaatagctttg	150522	-	see also 14330 line
32684	PDCD6	NM_013232.2	486	tccaagacatcctcattcgaag	150591	-	see also 14331 line
32685	PDCD6	NM_013232.2	570	tcagaggttgaggatatttc	150593	-	see also 14331 line
32686	PEF	NM_012392.1	600	ccgctcgtcgtcattagctaca	150608	-	see also 5308 line
32687	PH-4	NM_017732.2	1285	gcgcgtgcaggtttctgatatg	150611	-	see also 14333 line
32688	PH-4	NM_017732.2	791	ccgggtctcgtcgtgataaga	150609	-	see also 14333 line
32689	PITPNM2	NM_020845.1	160	aagagccgttaacagagacatatgg	150623	-	see also 7992 line
32690	PITPNM2	NM_020845.1	633	ccccatcatgctgcatacaagc	150630	-	see also 7992 line
32691	PITPNM3	NM_031220.1	1917	gacaggttaatcgctatgagcgc	150644	-	see also 14335 line
32692	PITPNM3	NM_031220.1	196	cccttgccaccttcgaattgtcc	150642	-	see also 14335 line
32693	PKD1-like	NM_024874.3	889	gaggtccacaaggcgtattacaat	150665	-	see also 8799 line
32694	PKD1-like	NM_024874.3	890	aggtccacaaggcgtattacaat	150666	-	see also 8799 line
32695	PKD2L1	NM_016112.2	2416	aactaggccgatctatttgagc	150748	-	see also 6669 line
32696	PKD2L1	NM_016112.2	988	agctaaagtccgcaatgactcc	150728	-	see also 6669 line
32697	PKD2L2	NM_014386.1	369	agcagctcgtcgtcattatgaaaa	150766	-	see also 14338 line
32698	PKD2L2	NM_014386.1	839	capatatgttagctactatgact	150786	-	see also 14338 line
32699	PKDREJ	NM_006071.1	1153	aactacggtgggagatcaaat	150825	-	see also 14339 line
32700	PKDREJ	NM_006071.1	4804	tacggtatgacaaagtcaataga	150940	-	see also 14339 line

917

図46 (続き)

32701	PKDREJ	NM_006071.1	3911	gtcgtacgcctagctggtattta	150911	-	see also 14339 line
32702	PLA2G10	NM_003561.1	792	tgcggaccggcagagacaactg	150997	-	see also 14340 line
32703	PLA2G10	NM_003561.1	833	gtgtgacacagagatgctaact	150999	-	see also 14340 line
32704	PLA2G1B	NM_000928.2	302	accgtacacccacacactattca	151006	-	see also 14341 line
32705	PLA2G1B	NM_000928.2	231	gtgtgtgcacagacacacact	151004	-	see also 14341 line
32706	PLA2G2A	NM_000300.2	499	aacgtggatgtggcacaattt	151012	-	see also 14342 line
32707	PLA2G2A	NM_000300.2	614	tgcacacctgtttgtagaaca	151016	-	see also 14342 line
32708	PLA2G2E	NM_014589.1	428	aaccggaatatgocattatoc	151024	-	see also 14343 line
32709	PLA2G2E	NM_014589.1	419	ggcactacacacccgcaaatatgc	151023	-	see also 14343 line
32710	PLA2G2F	NM_022819.1	241	cactatgtggaccactatgaca	151025	-	see also 14344 line
32711	PLA2G2F	NM_022819.1	389	acgtggcttccctcaatgtctac	151028	-	see also 14344 line
32712	PLA2G3	NM_015715.1	807	acogctgcccacagacacatctca	151031	-	see also 14345 line
32713	PLA2G3	NM_015715.1	1696	aggccocatgtcattacaacc	151033	-	see also 14345 line
32714	PLA2G5	NM_000929.1	374	tgcgcacacagtcctcaaatatc	151037	-	see also 14346 line
32715	PLA2G5	NM_000929.1	193	ggctgtgtgacacaaatcaat	151036	-	see also 14346 line
32716	PLCD1	NM_006225.1	1151	atcactaccacgctactattt	151047	-	see also 14347 line
32717	PLCD1	NM_006225.1	1158	acacggctatactttcaattcc	151049	-	see also 14347 line
32718	PLCD3	NM_133373.1	410	tgcgccatcgagcacatcttct	151053	-	see also 14348 line
32719	PLCD3	NM_133373.1	2001	cagtgtgctacgtcctcaaac	151059	-	see also 14348 line
32720	PLCD4	NM_032726.2	1828	tggcagtaagccgtgtgtatcc	151092	-	see also 14349 line
32721	PLCD4	NM_032726.2	1147	agcagcgtcgaggagatatagc	151079	-	see also 14349 line
32722	PLCG1	NM_002660.2	617	cagaatctgaggagctatctac	151113	-	see also 14350 line
32723	PLCG1	NM_002660.2	1897	ggcgactacacgctctctttct	151123	-	see also 14350 line
32724	PLCG2	NM_002661.1	3450	aagacgacgttgatgaatgataa	151202	-	see also 1741 line
32725	PLCG2	NM_002661.1	3452	ggcagcgtgtggaatgataatg	151203	-	see also 1741 line
32726	PLCG1	NM_033123.2	540	tacgagcctatagaagaagtag	151221	-	see also 9370 line
32727	PLCG1	NM_033123.2	1831	cagaattggcatgatacgtttt	151276	-	see also 9370 line
32728	PLEK	NM_002664.1	528	cacagtaactcgtcattgatt	151286	-	see also 1744 line
32729	PLEK	NM_002664.1	559	tccaacagctgtgtaggatag	151290	-	see also 1744 line
32730	PLG	NM_000301.1	2138	acgggaccgaatttttcaact	151314	-	see also 14354 line
32731	PLG	NM_000301.1	2132	tgcgtgacccggacgaatgtttc	151311	-	see also 14354 line
32732	PLSCR1	NM_021105.1	564	gtcagatagatcagatactgatt	151319	-	see also 14355 line
32733	PLSCR1	NM_021105.1	1063	ggcatttacagacgctgataact	151322	-	see also 14355 line
32734	PLSCR2	NM_020359.1	358	aactgtccgcaggaattggaata	151323	-	see also 14356 line
32735	PLSCR2	NM_020359.1	839	tgtgtgtggcaggattttctag	151336	-	see also 14356 line
32736	PLSCR3	NM_020360.2	510	ggagacctgaatcggatgaact	151340	-	see also 14357 line
32737	PLSCR3	NM_020360.2	444	cgtgtgacagattgatacattt	151338	-	see also 14357 line
32738	PLSCR4	NM_020353.1	834	ggcgggtgtacagcatccaat	151356	-	see also 7843 line
32739	PLSCR4	NM_020353.1	690	tgggcccggagaatcatgacaatg	151354	-	see also 7843 line
32740	PLSCR4	NM_020353.1	952	atccacatcggcagatattatoc	151357	-	see also 7843 line
32741	PPEF1	NM_006240.2	1292	ctcccaatcggtaacaatcgttga	151386	-	see also 14359 line
32742	PPEF1	NM_006240.2	1298	atcggtaacaatcgttgacaatga	151387	-	see also 14359 line
32743	PPEF2	NM_006239.2	785	ctcgtaactgttgaacctttg	151432	-	see also 4325 line
32744	PPEF2	NM_006239.2	1856	acgcgaaggattatacaactttt	151463	-	see also 4325 line

918

図46 (続き)

32745	PPEF2	NM_006239.2	1720	tgaagggccacacactatttcgagg	151457	-	see also 4325 line
32746	PHLN1	NM_016488.3	162	tggctacaatagactagtaata	151496	-	see also 14361 line
32747	PHLN1	NM_016488.3	156	cagtgatggctacaatagactag	151494	-	see also 14361 line
32748	PPM2C	NM_018444.1	1822	atgttgtagggcgctataaacaac	151572	-	see also 14362 line
32749	PPM2C	NM_018444.1	911	tggtagtcgactgatattgatg	151543	-	see also 14362 line
32750	PPR2R3A	NM_002718.3	3326	gcccagtcgtctcgatatacaatga	151673	-	see also 14363 line
32751	PPR2R3A	NM_002718.3	3530	gacggtgactctccatgatga	151678	-	see also 14363 line
32752	PPR2R3A	NM_002718.3	2687	aacattccacgggttctactttcc	151650	-	see also 14363 line
32753	PR48	NM_013239.2	498	tccgagggagagagagtagttca	151686	-	see also 14364 line
32754	PR48	NM_013239.2	1105	accagtcgaccgaattctctcg	151690	-	see also 14364 line
32755	PR48	NM_013239.2	787	tctcgcccatgtggagaaaatc	151689	-	see also 14364 line
32756	PRKCSH	NM_002743.1	282	atcaggtcaacagatgactattgc	151693	-	see also 14365 line
32757	PRKCSH	NM_002743.1	407	cgggtcaacgagtggtttgtga	151697	-	see also 14365 line
32758	PROC	NM_000312.1	1192	tcccgtggtcccgacaaatgagt	151706	-	see also 14366 line
32759	PROC	NM_000312.1	498	aggtagctctcctaattgctcg	151703	-	see also 14366 line
32760	PROM2	NM_144707.1	1990	cccgacttctctgttcagatcc	151716	-	see also 14367 line
32761	PROM2	NM_144707.1	380	tttgtaagggccctactgaatga	151709	-	see also 14367 line
32762	PROS1	NM_000313.1	1847	atgttcgatcaacaatctcacc	151775	-	see also 14368 line
32763	PROS1	NM_000313.1	1467	ccgattaacctctctctagatgg	151759	-	see also 14368 line
32764	PRRG1	NM_000950.1	561	ccccccacagatgaagtgttg	151790	-	see also 14369 line
32765	PRRG1	NM_000950.1	386	ggaggagtgactgtttcagttt	151784	-	see also 14369 line
32766	PVALB	NM_002854.1	243	ggactgggattcatctctaaagg	151793	-	see also 14370 line
32767	Rab11- FIP3	NM_014700.1	1138	ctcggtggtgatcagctttgaaga	151798	-	see also 14371 line
32768	Rab11- FIP3	NM_014700.1	1257	cccgagcaggttcgatgactcg	151800	-	see also 14371 line
32769	RAB11- FIP4	NM_032932.2	2011	cgctctggcgagtgagctaatgg	151812	-	see also 14372 line
32770	RAB11- FIP4	NM_032932.2	2014	ctcgcgagtgagctaatggaag	151813	-	see also 14372 line
32771	RAB11- FIP4	NM_032932.2	1025	aacagcgaattgctagatgttta	151806	-	see also 14372 line
32772	RASGRP1	NM_005739.2	340	gtgtgaagtaaccaactgtgc	151818	-	see also 14373 line
32773	RASGRP1	NM_005739.2	827	ccacacatggagcgatctattgc	151830	-	see also 14373 line
32774	RASGRP2	NM_005825.2	1197	gtgacggcgacagggcaactatgg	151871	-	see also 4061 line
32775	RASGRP3	NM_015376.1	1660	atcagatggccttaattagtaaa	151916	-	see also 14375 line
32776	RASGRP3	NM_015376.1	393	atgacccgagtgattattcttc	151885	-	see also 14375 line
32777	RCN1	NM_002901.1	504	accccgaggtttcatgtttct	151931	-	see also 14376 line
32778	RCN1	NM_002901.1	503	aaccgcgaggtttcatgttc	151930	-	see also 14376 line
32779	RCN3	NM_020650.2	629	gacgggaagtggccaaagaattc	151933	-	see also 14377 line
32780	RCN3	NM_020650.2	1343	aagcggaaatctcgtgtaattgg	151939	-	see also 14377 line
32781	RCV1	NM_002903.1	555	tggagatcgtatggctatttc	151941	-	see also 14378 line
32782	RCV1	NM_002903.1	656	aagtacttggaaagaatgatga	151942	-	see also 14378 line
32783	REPS1	NM_031922.2	2821	caggcatcaattagacgtaataa	151999	-	see also 9053 line

919

図46 (続き)

32784	REPS2	NM_004726.1	1013	aacagcgcgagctactatgtcaat	152008	-	see also 14380 line		
32785	REPS2	NM_004726.1	1853	cacatcaaaagccattgttagg	152021	-	see also 14380 line		
32786	RGN	NM_004683.3	623	tggctgcgtacacacaaatct	152035	-	see also 3211 line		
32787	RGN	NM_004683.3	713	ctcaaacgcagaaggttttaca	152036	-	see also 3211 line		
32788	RHBDL1	NM_003961.1	704	accaccocccagctacagaagc	152046	-	see also 14382 line		
32789	RHBDL1	NM_003961.1	699	gaactaccaccccgagtcacatga	152045	-	see also 14382 line		
32790	RHBDL4	NM_138328.1	755	caccgaattggcctgtctctacg	152060	-	see also 9598 line		
32791	RHBDL4	NM_138328.1	647	ttggcgctaccctgacatacatct	152057	-	see also 9598 line		
32792	RYR3	NM_001036.2	11263	caogcgtgctctcttagattcc	152288	-	see also 14384 line		
32793	RYR3	NM_001036.2	7297	tgcctgtgacataaattaggtata	152192	-	see also 14384 line		
32794	S100A10	NM_002966.1	343	ggcctcaccattgcatgcaatga	152360	-	see also 1998 line		
32795	S100A10	NM_002966.1	260	tggctgtggacaaaataatgaag	152359	-	see also 1998 line		
32796	S100A11	NM_005620.1	192	tctggaaaggatgtgttaact	152362	-	see also 14385 line		
32797	S100A12	NM_005621.1	240	ttccaaaggcctggatgctaataca	152369	-	see also 14386 line		
32798	S100A12	NM_005621.1	127	ttcgaagaaggcctgtttgacacc	152367	-	see also 14386 line		
32799	S100A12	NM_005621.1	88	atctggagggaattgtcaatctc	152365	-	see also 14386 line		
32800	S100A4	NM_002961.2	152	agctcaacaagtcagaactaaag	152374	-			colorectal cancer(大腸癌)、breast cancer(乳癌)、colorectal cancers(結腸直腸癌)、osteosarcoma(骨髄性骨肉腫)
32801	S100A5	NM_002962.1	429	gagcagcatcgatgaacttgatga	152376	-	see also 14389 line		
32802	S100A5	NM_002962.1	317	tgtgacacagcttcacaaatct	152375	-	see also 14389 line		
32803	S100A8	NM_002964.3	172	gaccgagcttcctcagtatatca	152379	-	see also 14390 line		
32804	S100A8	NM_002964.3	238	caactgatgtgacagtaacttcc	152383	-	see also 14390 line		
32805	S100Z	NM_130772.1	464	ttcctctgtgccaaaaggaaac	152387	-	see also 14392 line		
32806	S100Z	NM_130772.1	485	acocagctgtgtgataagatagt	152390	-	see also 14392 line		
32807	SCG2	NM_003469.2	1478	ctgccaaggctcccttatgtgtgc	152412	-	see also 14393 line		
32808	SCG2	NM_003469.2	1441	gtcgtattttcccaattccatata	152409	-	see also 14393 line		
32809	SCGN	NM_006998.2	882	cagcggggtggaccttgataagt	152441	-	see also 14394 line		
32810	SCGN	NM_006998.2	669	tgtcgggtggatctaaatgact	152435	-	see also 14394 line		
32811	SCN10A	NM_006514.1	1744	gtcgtatctcggcattcgtatgc	152482	-	see also 4556 line		
32812	SCN10A	NM_006514.1	239	aggatctagatccgcttctacagc	152448	-	see also 4556 line		
32813	SCN1A	NM_006920.2	5919	ttcctatgaocgggtgacaaagc	152618	-	see also 14396 line		
32814	SCN1A	NM_006920.2	3602	tcggaatgttgacataactgg	152582	-	see also 14396 line		
32815	SCN2A2	NM_021007.1	1003	ttggatgggaatgtgtactacttt	152633	-	see also 14397 line		
32816	SCN2A2	NM_021007.1	2151	gagacggctccagtcttattcatg	152647	-	see also 14397 line		
32817	SCN3A	NM_006922.2	2327	agcagcgcaacagtaacgttagt	152709	-	see also 14398 line		
32818	SCN3A	NM_006922.2	3532	aagatgcggggaggtgttccaaa	152715	-	see also 14398 line		
32819	SCN4A	NM_000334.3	1084	ttgattgggagcctcacatcagt	152763	-	see also 14399 line		
32820	SCN4A	NM_000334.3	2120	gtcgtggcgcaacgctgaacatgc	152772	-	see also 14399 line		
32821	SCN9A	NM_002977.1	1370	cagcggcagcgctgaatatata	152809	-	see also 14400 line		
32822	SCN9A	NM_002977.1	1376	cagcggcgtgaatatatacagatt	152812	-	see also 14400 line		
32823	SCUBE1	NM_173050.1	744	atcgagagcgtgcgagctcaataa	152891	-	see also 10047 line		
32824	SCUBE1	NM_173050.1	1339	tgtgcagagctcggaataatagc	152897	-	see also 10047 line		
32825	SCUBE2	NM_020974.1	2826	gtcccatagctgacatatgatga	152951	-	see also 8059 line		

920

図46 (続き)

32826	SCUBE2	NM_020974.1	1656	agcttcgctacgttaaccttac	152922	-	see also 8059 line
32827	SEPN1	NM_020451.1	295	cactgacgggagatgatataca	152954	-	see also 14403 line
32828	SEPN1	NM_020451.1	758	ctgtccaacaacccgtctatcc	152956	-	see also 14403 line
32829	SLC25A12	NM_003705.2	1748	ctgcagctcgaggttttcgatcc	153016	-	see also 2527 line
32830	SLC25A12	NM_003705.2	977	ttgcggagctgcttaccagattc	152997	-	see also 2527 line
32831	SLC25A13	NM_014251.1	1640	tcctgtctatgctcatggaagg	153061	-	see also 5556 line
32832	SLC25A13	NM_014251.1	1808	caattacagcggagtgatagact	153063	-	see also 5556 line
32833	SMOC1	NM_022137.2	976	atcccgctgagggtattgtcatc	153083	-	see also 8301 line
32834	SMOC1	NM_022137.2	1135	ggcagccagggcccaagactaca	153087	-	see also 8301 line
32835	SMOC2	NM_022138.1	959	aggttgcctgggtgccaaaaagc	153104	-	see also 14407 line
32836	SMOC2	NM_022138.1	243	cagctagagattgcatacgaagg	153098	-	see also 14407 line
32837	SPARCL1	NM_004684.2	1162	tgcatcgcaacgtcaataagcaca	153127	-	see also 14408 line
32838	SPARCL1	NM_004684.2	1770	gtcatctattcgtactaataatgc	153142	-	see also 14408 line
32839	SPOCK2	NM_014767.1	539	gacaatcagcaaggagatgaagc	153154	-	-
32840	SPOCK3	NM_016950.1	213	ggcggctcgagcggcggttaatttt	153155	-	see also 6979 line
32841	SPOCK3	NM_016950.1	214	ggcggctcgagcggcggttaatttt	153156	-	see also 6979 line
32842	SPOCK3	NM_016950.1	352	acccttcgataagcgttttagatc	153159	-	see also 6979 line
32843	SRI	NM_003130.2	531	tcgcctgctcggtcaaac*gaagg	153206	-	see also 14410 line
32844	SRI	NM_003130.2	310	gtctggcacaatgggtttcaatg	153196	-	see also 14410 line
32845	SSR1	NM_003144.2	351	accgagtcgagatacaactatac	153213	-	see also 2125 line
32846	SSR1	NM_003144.2	603	ggcggagcagcaccatttggtttg	153222	-	see also 2125 line
32847	SSR4	NM_006280.1	508	tgccggcgatcgcccttgatgat	153244	-	see also 14412 line
32848	SSR4	NM_006280.1	511	ggcgatcgcccttgatgatcact	153245	-	see also 14412 line
32849	SSR4	NM_006280.1	252	ctgacgtcggtgggaaacaattc	153239	-	see also 14412 line
32850	STAB1	NM_015136.1	373	ggcgctgagaccccatgcaatgg	153249	-	see also 14413 line
32851	STAB1	NM_015136.1	1383	caccgtcaactttaaccaattca	153255	-	see also 14413 line
32852	STAB1	NM_015136.1	5298	atcccataggcccttcacaatgc	153293	-	see also 14413 line
32853	STAB2	NM_017564.8	2566	tgcgctcacggaacatgcataaa	153373	-	see also 14414 line
32854	STAB2	NM_017564.8	6128	cgccaccggagagtgtaaatgc	153464	-	see also 14414 line
32855	SWAP70	NM_015055.1	271	accagggtacatgccttattta	153484	-	see also 6214 line
32856	SWAP70	NM_015055.1	1687	tgcccatcatgaaggatgaatt	153512	-	see also 6214 line
32857	SYP	NM_003179.1	300	ctcctcgtagccgaattctttg	153520	-	see also 14416 line
32858	SYP	NM_003179.1	548	ggcggcagacagggaacacatgc	153524	-	see also 14416 line
32859	TGM1	NM_000359.1	1542	aagtagcacacgcctttcatatt	153538	-	see also 14417 line
32860	TGM1	NM_000359.1	1545	tagacacgcctttcatatttc	153539	-	see also 14417 line
32861	TGM1	NM_000359.1	466	accacacagcggagatgagtagc	153526	-	see also 14417 line
32862	TGM2	NM_004613.2	902	ggctgcacgcggtcaaatgtagg	153558	-	see also 14418 line
32863	TGM2	NM_004613.2	984	cccgctcgtgaccactacacac	153559	-	see also 14418 line
32864	TGM3	NM_003245.2	1700	ctcgtacgtcgaatgagaagt	153597	-	see also 2187 line
32865	TGM3	NM_003245.2	633	cgccgtgacgctgactagtatgt	153582	-	see also 2187 line
32866	TGM4	NM_003241.1	1464	caatctggtagaatacagatga	153627	-	see also 14420 line
32867	TGM4	NM_003241.1	1459	ttcttcacatgctggtagaataca	153626	-	see also 14420 line
32868	TGM5	NM_004245.1	935	caagcccttgggttttcgtaggg	153655	-	see also 2849 line
32869	TGM5	NM_004245.1	1623	agcatcacgattaatgttctagg	153666	-	see also 2849 line

921

図46 (続き)

32870	TGM7	NM_052955.1	920	cgcgcaacacgtggatagaact	153690	-	see also 14422 line
32871	TGM7	NM_052955.1	942	ttgaaccatcatgactatga	153691	-	see also 14422 line
32872	THBD	NM_000361.2	1293	ggcagccctgaacaaactagc	153707	-	see also 14423 line
32873	THBD	NM_000361.2	487	gtgggttacggagacaacaaca	153704	-	see also 14423 line
32874	THBS1	NM_003246.2	3224	caccgaaaggagcagtgactatg	153751	-	see also 2188 line
32875	THBS1	NM_003246.2	3225	accgaaaggagcagtgactatgc	153752	-	see also 2188 line
32876	THBS1	NM_003246.2	2302	atgcactaccactgcaaaaag	153735	-	see also 2188 line
32877	THBS2	NM_003247.2	3514	cggggcaggtgcgaaacttatgg	153789	-	see also 14425 line
32878	THBS2	NM_003247.2	3278	cagtgacacattctacataaaca	153788	-	see also 14425 line
32879	THBS3	NM_007112.3	2181	ggagtaacgttacggattttcg	153826	-	see also 14426 line
32880	THBS3	NM_007112.3	2726	ggcggattctggggtgatoattg	153833	-	see also 14426 line
32881	THBS4	NM_003248.3	1100	ggcttgcggtcctctcaagtttc	153844	-	see also 14427 line
32882	THBS4	NM_003248.3	1491	cccaactcgtatcgtgtaatac	153852	-	see also 14427 line
32883	TKT	NM_001064.1	51	cacggccaacccctcactatca	153879	-	see also 652 line
32884	TKT	NM_001064.1	1372	gtggaaactagccccaatacaaa	153894	-	see also 652 line
32885	TKTL1	NM_012253.1	1291	accggaccagaactatgttat	153912	-	see also 14429 line
32886	TKTL1	NM_012253.1	1292	ccgaacagaaaactatgttatt	153913	-	see also 14429 line
32887	TLL1	NM_012464.3	1414	atcgagataaccacgaactatc	153948	-	see also 5339 line
32888	TLL2	NM_012465.2	1854	agcggaggtatgaatacgcgc	154040	-	see also 5343 line
32889	TLL2	NM_012465.2	2240	gtctgaagtacgactttgtaga	154046	-	see also 5343 line
32890	TMG3	NM_024082.2	419	cccattcgtctgaaacgattc	154058	-	see also 14431 line
32891	TMG3	NM_024082.2	1038	cccaagatcagagagagatagtg	154064	-	see also 14431 line
32892	TNNC1	NM_003280.1	232	agcggcacgtggactttgtaga	154065	-	see also 2219 line
32893	TNNC2	NM_003279.2	93	gtctactctcagcgaagagatga	154068	-	see also 14433 line
32894	TPO	NM_000547.3	2075	tgcggagcgggactgtgtttgg	154086	-	see also 14434 line
32895	TPO	NM_000547.3	2675	gtctacactcagcgtgtttgc	154092	-	see also 14434 line
32896	TRPA1	NM_007332.1	1534	gccagttatggcgtatcaatc	154145	-	see also 5080 line
32897	TRPA1	NM_007332.1	1533	agccagttatggcgtatcaata	154144	-	see also 5080 line
32898	TSC	NM_017899.1	284	agcagtcctacggagatttaag	154218	-	see also 14436 line
32899	TSC	NM_017899.1	590	gccgcactcactctggaataat	154223	-	see also 14436 line
32900	TSC	NM_017899.1	375	cccactccgatacaaaattgttc	154220	-	see also 14436 line
32901	UCC1	NM_017549.1	204	ctgcgcgtccggatctcaaaag	154227	-	see also 7030 line
32902	UCC1	NM_017549.1	940	gtctacgggtttttgacatcc	154238	-	see also 7030 line
32903	UCC1	NM_017549.1	205	tgcgcgtccgatactcaaaagc	154228	-	see also 7030 line
32904	UMOD	NM_003361.1	1585	ggcgactgtcccgatttgcaact	154251	-	see also 14438 line
32905	UMOD	NM_003361.1	1197	ccggttctcggcttcaatgaca	154247	-	see also 14438 line
32906	USP13	NM_003940.1	2338	cgactacagacaacgaataaata	154317	-	see also 14439 line
32907	USP13	NM_003940.1	2340	cactacagacaacgaataaatac	154318	-	see also 14439 line
32908	USP13	NM_003940.1	2337	aggcactacagacaacgaataaat	154316	-	see also 14439 line
32909	USP32	NM_032582.2	800	tccggactggcgcgatttgattt	154340	-	see also 14440 line
32910	USP32	NM_032582.2	1644	ttgtctgcacaacataacacttct	154366	-	see also 14440 line
32911	USN1	NM_003385.3	345	aggcctaatactcggaggatttca	154387	-	see also 2283 line
32912	ACE	NM_000789.2	2345	gccacgtcccggaataatgaaga	154422	-	see also 488 line
32913	ACE	NM_000789.2	2428	cccgaaatacgtggaactcatca	154424	-	see also 488 line

図46 (続き)

922

32914	ACE2	NM_021804.1	2021	atgtacctgttcgcatcctgt	154526	-	see also 8170 line
32915	ACE2	NM_021804.1	1097	atgtacacgagccaggaatgt	154483	-	see also 8170 line
32916	ADAM10	NM_001110.1	2352	ctgatacccttgcacagatttt	154608	-	see also 888 line
32917	ADAM10	NM_001110.1	2353	tggatcccttgcacagatttta	154609	-	see also 888 line
32918	ADAM12	NM_003474.2	930	ggacctaaaggcaactaagtatg	154631	-	see also 14443 line
32919	ADAM12	NM_003474.2	2233	atctgcctgaatcgtcaatgtca	154650	-	see also 14443 line
32920	ADAM15	NM_003815.2	497	cccatatttcgcgaatccaga	154667	-	see also 14444 line
32921	ADAM15	NM_003815.2	153	ttcaggacgatctcccaattagc	154682	-	see also 14444 line
32922	ADAM15	NM_003815.2	1643	tgctccacagacgtaatactcg	154681	-	see also 14444 line
32923	ADAM17	NM_003183.3	2327	tgcatacgttcgcatatcaaac	154745	-	see also 14445 line
32924	ADAM17	NM_003183.3	1761	aagtgcacagagggcgattatgc	154736	-	see also 14445 line
32925	ADAM19	NM_023038.2	932	atgacaacgcccaattatcacg	154771	-	see also 14446 line
32926	ADAM19	NM_023038.2	515	agggcccaacaccttattacaga	154758	-	see also 14446 line
32927	ADAM20	NM_003814.3	815	gtgtcgtggataattagata	154801	-	see also 14447 line
32928	ADAM20	NM_003814.3	2050	gtgtgcagatgtgttcactgt	154841	-	see also 14447 line
32929	ADAM21	NM_003813.2	389	ggggcttctcggggagattataaa	154853	-	see also 14448 line
32930	ADAM21	NM_003813.2	539	tagcacggcaacagttggaattt	154856	-	see also 14448 line
32931	ADAM28	NM_014265.1	1021	accacagcgataactctctaga	154926	-	see also 14449 line
32932	ADAM28	NM_014265.1	1461	tgcgcacctgcctgaaatgtgtaa	154941	-	see also 14449 line
32933	ADAM30	NM_021794.2	1953	tacctgaacctaggatgataaat	155049	-	see also 14450 line
32934	ADAM30	NM_021794.2	1556	gagtaactgcgcaggggaattcaag	155022	-	see also 14450 line
32935	ADAM33	NM_025220.2	568	ttctcaacccacgagatotttgg	155059	-	see also 8882 line
32936	ADAM8	NM_001109.1	1814	gccaggacttacagtttacaga	155069	-	see also 14452 line
32937	ADAM8	NM_001109.1	1817	aggacttacagtttacagatcc	155071	-	see also 14452 line
32938	ADAM9	NM_003816.1	1051	agccacgcagcgaggattatgt	155099	-	see also 14453 line
32939	ADAM9	NM_003816.1	248	aagcccttagccctattcaaaa	155073	-	see also 14453 line
32940	ADAM9	NM_003816.1	1056	cgcaggcgggattatgtgttg	155101	-	see also 14453 line
32941	ADAMDEC	NM_014479.2	893	cgcaggcaccacggttgacaact	155162	-	see also 5700 line
32942	ADAMDEC	NM_014479.2	975	agcgggattagttcaacaatcg	155165	-	see also 5700 line
32943	ADAMTS1	NM_006988.2	2875	tgttagaatgccgagacattaat	155238	-	see also 4880 line
32944	ADAMTS1	NM_006988.2	1127	ccacagcattcgttaattcagta	155182	-	see also 4880 line
32945	ADAMTS1	NM_030957.1	1698	gtcaaatcgcgtcaggttaataa	155248	-	see also 14456 line
32946	ADAMTS1	NM_030957.1	2176	tagcagaaggcttcaactctac	155251	-	see also 14456 line
32947	ADAMTS1	NM_030955.1	892	accacccgacatcgtttacagg	155271	-	see also 14457 line
32948	ADAMTS1	NM_030955.1	1561	tggcgagacatcgtfacatcatg	155284	-	see also 14457 line
32949	ADAMTS1	NM_139025.1	2142	agcgagagatatgtcacatttc	155339	-	see also 14458 line
32950	ADAMTS1	NM_139025.1	2111	gccacaggaaggctctttcaca	155337	-	see also 14458 line
32951	ADAMTS1	NM_139025.1	481	ctctgtgtgcccgaatctctgc	155336	-	see also 14458 line
32952	ADAMTS1	NM_139055.1	627	cgcgaagcttctgtctctatcc	155357	-	see also 14459 line
32953	ADAMTS1	NM_139055.1	2377	cgggtccgctactctctctatct	155365	-	see also 14459 line
32954	ADAMTS1	NM_139057.1	974	agcgcgatacctcgcgaataaco	155374	-	see also 14460 line
32955	ADAMTS1	NM_139057.1	2498	ctcgtgtacacggattgtcaaca	155397	-	see also 14460 line

図46 (続き)

923

32956	ADAMTS1	NM_139057.1	886	gacaaagtcccgtaagtgtcc	155373	-	see also 14460 line
32957	ADAMTS1	NM_133638.1	3167	taogtcattcggagaccgttagatgt	155483	-	see also 14461 line
32958	ADAMTS1	NM_133638.1	1960	agcagtcggagagcggcaar'tgtcc	155457	-	see also 14461 line
32959	ADAMTS3	NM_014243.1	2351	gccaaagtcggagaccctcataga	155556	-	see also 14462 line
32960	ADAMTS3	NM_014243.1	2356	gtgcggagacctcatagattctg	155558	-	see also 14462 line
32961	ADAMTS4	NM_005099.2	2491	caagtcacggatatacaaatgtgg	155600	-	see also 3577 line
32962	ADAMTS4	NM_005099.2	2489	ttcaggtacggatatacaaatgt	155599	-	see also 3577 line
32963	ADAMTS5	NM_007038.1	1346	ggctcacgaatcggaacattac	155609	-	see also 4924 line
32964	ADAMTS5	NM_007038.1	1983	tgccaccacaatggtaaatcatt	155617	-	see also 4924 line
32965	ADAMTS6	NM_014273.2	1317	ctcacattactcggaataccaat	155685	-	see also 14465 line
32966	ADAMTS6	NM_014273.2	1682	aacgggtatcgtctctgtaacaca	155695	-	see also 14465 line
32967	ADAMTS8	NM_007037.2	3261	ggctggcagaggggaactgtaga	155747	-	see also 14466 line
32968	ADAMTS8	NM_007037.2	2603	gaggagcggagttcaaatgtctg	155742	-	see also 14466 line
32969	ADAMTS8	NM_020249.2	2613	aaccccgatgtacgctattcttt	155828	-	see also 14467 line
32970	ADAMTS9	NM_020249.2	2041	atgtcgcgtgggtccctaaatac	155807	-	see also 14467 line
32971	ADH1A	NM_000667.2	1177	tcgtaccattctgattgttga	155905	-	see also 14468 line
32972	ADH1A	NM_000667.2	1176	atcgtaccattctgattgttgg	155904	-	see also 14468 line
32973	ADH1B	NM_000668.3	1021	ggctgtttatgtggtcttaaga	155906	-	zinc binding
32974	ADH1C	NM_000669.2	1010	cacgtggaagaggagctattttg	155907	-	see also 14469 line
32975	ADH1C	NM_000669.2	1156	tgcttcgctctggaaagagatgc	155909	-	see also 14469 line
32976	ADH4	NM_000670.2	1423	atcgccgctactataaatggaac	155934	-	see also 14470 line
32977	ADH4	NM_000670.2	1587	aggaaaaagcgtccgaacaatcc	155940	-	see also 14470 line
32978	ADH4	NM_000670.2	1238	aaccgatccaggaagtatcatt	155927	-	see also 14470 line
32979	ADH5	NM_000671.2	685	ggcattcaaccgggtattgtgc	155944	-	zinc binding
32980	ADH6	NM_000672.2	305	ggctggaatcgttgagagatttg	155951	-	see also 14471 line
32981	ADH6	NM_000672.2	582	gtcgtcctctctagagaagtatg	155954	-	see also 14471 line
32982	ADH7	NM_000673.2	434	tgcataggagagcgatattactgg	155973	-	see also 14472 line
32983	ADH7	NM_000673.2	881	aacgtgggtatcacaccttgaagt	155980	-	see also 14472 line
32984	AI0DA	NM_020661.1	638	gacttacgagacgcatctgtac	155989	-	see also 14473 line
32985	AI0DA	NM_020661.1	643	acgagacgcatctgtactttgg	156000	-	see also 14473 line
32986	ANPEP	NM_001150.1	1589	tcctgtccgagagagatttcaag	156014	-	see also 14474 line
32987	ANPEP	NM_001150.1	2001	gggtattaccgggtgaactacg	156020	-	see also 14474 line
32988	POBEC3	NM_145699.2	105	caactgtggatccacacatt	156033	-	-
32989	POBEC3	NM_021822.1	1165	gcccgcatatgatgataaagg	156042	-	see also 14475 line
32990	POBEC3	NM_021822.1	554	tgcccgagagaccggaaggtacc	156036	-	see also 14475 line
32991	ARTS-1	NM_016442.2	1823	atggctcatgatttttgcataa	156085	-	see also 6859 line
32992	ARTS-1	NM_016442.2	1824	tggtccatcgatttttgcataa	156086	-	see also 6859 line
32993	BSPRY	NM_017688.1	953	ggccgatcagacatttctatcg	156121	-	see also 14477 line
32994	BSPRY	NM_017688.1	364	aggagtcggaaatgttaacttt	156115	-	see also 14477 line
32995	CA1	NM_001738.1	820	cacaattccggacctctatca	156135	-	see also 14478 line
32996	CA1	NM_001738.1	502	ttcacgtagctcactggaattct	156127	-	see also 14478 line
32997	CA10	NM_020178.2	861	cggcactgcccagtgaaacataga	156140	-	see also 14479 line
32998	CA10	NM_020178.2	860	acggcagctgcccagtgaaacatag	156139	-	see also 14479 line
32999	CA11	NM_001217.2	702	cccgacctgtggtgaattgtct	156165	-	see also 14480 line

図46 (続き)

924

33000	CA11	NM_001217.2	466	gtggagctacaaggataatctcc	156164	-	see also 14480 line
33001	CA12	NM_001218.2	716	ttcgcccgaggtatcaacattga	156174	-	see also 14481 line
33002	CA12	NM_001218.2	831	tcgaaaccccggtgaatttcc	156178	-	see also 14481 line
33003	CA12	NM_001218.2	712	agcattcgccgggagccaaca	156173	-	see also 14481 line
33004	CA14	NM_012113.1	1158	ctgtataccacagtgaaatgc	156188	-	see also 14482 line
33005	CA14	NM_012113.1	1145	tccaagcagatccctcgatacc	156186	-	see also 14482 line
33006	CA2	NM_000067.1	479	tggactggccgtctctaggtattt	156195	-	see also 14483 line
33007	CA2	NM_000067.1	484	tggccgttcttaggtatttttttg	156198	-	see also 14483 line
33008	CA3	NM_005181.2	770	gcgcgttgagctgcgtactaaag	156204	-	see also 14484 line
33009	CA3	NM_005181.2	1092	cgcgatggagatcgctgtgattgg	156217	-	see also 14484 line
33010	CA3	NM_005181.2	1050	tgaacccgaaagtataaacattt	156214	-	see also 14484 line
33011	CA4	NM_000717.2	876	ggcagcgccaggggtgataaagtc	156233	-	see also 14485 line
33012	CA4	NM_000717.2	721	cacacgcgactcgcatgagaagg	156230	-	see also 14485 line
33013	CA5A	NM_001739.1	384	accgagcagcaggaattagtgg	156236	-	see also 14486 line
33014	CA5A	NM_001739.1	656	ggcggaaataaacaataaggacg	156237	-	see also 14486 line
33015	CA5B	NM_007220.2	704	ggcgtcaattaagcataaggacg	156252	-	see also 5033 line
33016	CA5B	NM_007220.2	698	tactttgcgcgtcaattaagcata	156251	-	see also 5033 line
33017	CA5B	NM_007220.2	983	ttcatctctcggcatgattatg	156256	-	see also 5033 line
33018	CA6	NM_001215.1	401	ggacatgtgatcgagattcacatt	156259	-	see also 14488 line
33019	CA6	NM_001215.1	838	ttcccgaaatcaggaaatacacct	156264	-	see also 14488 line
33020	CA7	NM_005182.1	683	tcggagcctgctttttacctcg	156270	-	zinc binding
33021	CA7	NM_005182.1	460	ggcagcagccccagcatgaatcg	156269	-	see also 33020 line
33022	CA7	NM_005182.1	203	tcacagtagacttcaatgacagc	156268	-	see also 33020 line
33023	CA8	NM_004056.3	630	ggacacacaggttaatttcaaacg	156287	-	see also 2733 line
33024	CA9	NM_001216.1	1003	ttcagccgctacttccaatatga	156303	-	see also 14490 line
33025	CA9	NM_001216.1	1005	cagccgctacttccaatatgagg	156304	-	see also 14490 line
33026	CDA	NM_001785.1	469	accaagccggatggtaactat	156312	-	see also 14491 line
33027	CDA	NM_001785.1	379	ggcagtgacatgcagatgattt	156311	-	see also 14491 line
33028	CDADC1	NM_030911.1	146	ggcagatgacccggtcagatacc	156315	-	see also 14492 line
33029	CDADC1	NM_030911.1	962	ttcgattttaccgtagcaatcc	156340	-	see also 14492 line
33030	CDADC1	NM_030911.1	555	tgttaaggaggctcttagttct	156330	-	see also 14492 line
33031	CGI-63	NM_016011.1	856	cggtggaggagaccatgtaacc	156362	-	see also 14493 line
33032	CGI-63	NM_016011.1	645	ctggccctaagaaccatcaatgt	156358	-	see also 14493 line
33033	CRIP2	NM_001312.2	642	tgcggtgggagctgcatatctatg	156366	-	see also 14494 line
33034	CRIP2	NM_001312.2	132	gggaaaggactggcacaagtctt	156365	-	see also 14494 line
33035	CRYZ	NM_001899.2	881	ggcaagggatcgagataattg	156376	-	see also 14495 line
33036	CRYZ	NM_001899.2	880	tggcaaaaggagtcggataatt	156375	-	see also 14495 line
33037	CRYZL1	NM_005111.5	394	tagagtacatgagcattacttgg	156389	-	see also 3582 line
33038	CSRPI	NM_004078.1	470	ggcataaggcctgtttcgatgt	156405	-	see also 14496 line
33039	CSRPI	NM_004078.1	552	ctgcaaaaggatgttatgtaaaa	156407	-	see also 14496 line
33040	DCTD	NM_001921.1	112	ggcgcctgcatcgtaattcaga	156410	-	see also 14497 line
33041	DCTD	NM_001921.1	23	aacgggagcagactatttggatgg	156409	-	see also 14497 line
33042	DKFZP547N043	NM_032018.2	500	agccaataataacggtataccata	156438	-	see also 14498 line

925

図46 (続き)

33043	DKFZP547	NM_032018.2	1282	aacgaacctaggctagaagataag	156463	-	see also 14498 line
33044	DPF3	NM_012074.1	631	agcaaacagtgccgtataggaaaa	156472	-	see also 14499 line
33045	DPF3	NM_012074.1	43	agcgtctgggaccagcttctaca	156467	-	see also 14499 line
33046	DPF3	NM_012074.1	290	ctcggctctgggagataaaacc	156469	-	see also 14499 line
33047	DUSP12	NM_007240.1	681	tgaaggcgtatcattatttogaag	156490	-	see also 14500 line
33048	DUSP12	NM_007240.1	525	gtgatactctagtcaattta	156480	-	see also 14500 line
33049	ECF1	NM_001397.1	781	ggctgacctgagagactatta	156502	-	see also 14501 line
33050	ECF1	NM_001397.1	827	aggtctgacctgagatattgaac	156504	-	see also 14501 line
33051	ECF1	NM_004826.1	226	gagggcgcaactagagatttc	156525	-	see also 3348 line
33052	ECF1	NM_004826.1	1907	caggcgctcaatgcctactatct	156532	-	see also 3348 line
33053	EEA1	NM_003566.1	3953	gaattacgggggtgaattgcagt	156632	-	see also 14503 line
33054	EEA1	NM_003566.1	2042	aaggtccacagcttgacataca	156587	-	see also 14503 line
33055	ENPEP	NM_001977.2	1872	gggttactctgtcttaacgtga	156680	-	see also 1259 line
33056	ENPEP	NM_001977.2	2801	cagtcattcgtatataatcatt	156708	-	see also 1259 line
33057	FASN	NM_004104.3	6236	tcggccatggagcgtatctgtga	156731	-	see also 14505 line
33058	FASN	NM_004104.3	2314	gtctctcggcgagtgacaatgtca	156724	-	see also 14505 line
33059	FASN	NM_004104.3	6310	cggcgacgtggcattttgtgtg	156733	-	see also 14505 line
33060	FBXO30	NM_032145.3	2049	ctcgatggcttcagcttatgtca	156788	-	see also 14506 line
33061	FBXO30	NM_032145.3	1703	acccaagcagcgttcaattgtta	156774	-	see also 14506 line
33062	FBXO30	NM_032145.3	447	tgaatcagtgccagctgtgtta	156742	-	see also 14506 line
33063	FGD1	NM_004463.2	1573	acggggacagcggcagcttgatgc	156802	-	see also 3013 line
33064	FGD1	NM_004463.2	2560	acagatacctcactactatcaaac	156813	-	see also 3013 line
33065	FGD2	NM_173558.2	1891	ccctgtgtctatgtctctgc	156835	-	see also 14507 line
33066	FGD2	NM_173558.2	1413	agcagcattgacccaatcggaga	156833	-	see also 14507 line
33067	FGD3	NM_033086.1	2194	gcggtctgcagagattgttc	156845	-	see also 14508 line
33068	FGD3	NM_033086.1	1133	cacggagagagtgagacaaacc	156839	-	see also 14508 line
33069	FGD4	NM_139241.1	1091	aacggacttgaccttattagata	156858	-	see also 9676 line
33070	FGD4	NM_139241.1	2089	atggatccagagataatgaatga	156882	-	see also 9676 line
33071	FLJ10759	NM_018207.1	858	gaccgacatcgagcagaaagtc	156894	-	see also 14510 line
33072	FLJ10759	NM_018207.1	1256	tgggttgaagccttcctagat	156896	-	see also 14510 line
33073	FLJ23049	NM_024687.1	1021	atcgtttagaatgcacacattcc	156926	-	see also 14511 line
33074	FLJ23049	NM_024687.1	514	atcaacatcatgttttcgataag	156905	-	see also 14511 line
33075	FLJ32919	NM_144588.3	1151	aacgggtctctgagcaagaatga	156948	-	see also 14512 line
33076	FLJ32919	NM_144588.3	480	cagtaggtgcccgtatgatttca	156941	-	see also 14512 line
33077	FLJ40722	NM_173678.1	1307	tcggcaagcgcgtctctcaattc	156954	-	see also 14513 line
33078	FLJ40722	NM_173678.1	1423	gaagggtccctgcttcaatcatc	156959	-	see also 14513 line
33079	FYCO1	NM_024513.1	4607	gtgactcagatgagagattgtt	156997	-	see also 14514 line
33080	FYCO1	NM_024513.1	3234	tggactaccagcagcagacttaag	156978	-	see also 14514 line
33081	GDA	NM_004293.1	786	aacccgtgattgcacattcaga	157019	-	see also 2875 line
33082	GDA	NM_004293.1	788	cccgattggtgcacattcagagc	157020	-	see also 2875 line
33083	GGT1	NM_005265.1	638	tacaacagcaccacacagaagc	157039	-	-
33084	HGS	NM_004712.3	1883	cccaatgcagcgggtgacatga	157053	-	glutathionuria(グルタチオン尿症)
33085	HGS	NM_004712.3	246	aacccacacgtcgcttattatgc	157041	-	see also 14516 line

圖46 (續七)

33086	HS3ST1	NM_005114.1	565	gtcggagcgcgtgctatctgact	157057	-	see also 14517 line
33087	HS3ST1	NM_005114.1	947	gtcgatcccaactactcaataa	157062	-	see also 14517 line
33088	HSXIAPAF						
	1	NM_017523.2	1070	gcggatcctaataatcaacatcagg	157084	-	see also 14518 line
	HSXIAPAF						
33089	1	NM_017523.2	1064	tccctcgcgcgactactaatcaac	157081	-	see also 14518 line
33090	KEL	NM_000420.2	1749	gtccctcgcgactagaaattgtcc	157109	-	see also 14519 line
33091	KEL	NM_000420.2	2038	tgcctgaagcgcgcattatgtgc	157117	-	see also 14519 line
33092	KIAA1576	NM_020927.1	317	cgcgtcaaacgcctgttgattaaa	157122	-	see also 14520 line
33093	KIAA1576	NM_020927.1	357	tgcgacaagggaataattgacaac	157124	-	see also 14520 line
33094	KPNB1	NM_002285.4	2885	ggcggagatcgaaagactacaata	157208	-	see also 1451 line
33095	KPNB1	NM_002285.4	2883	agggcggagatcggaagactaaca	157207	-	see also 1451 line
33096	KUB3	NM_033276.1	413	gtgttcacacacagcgttttca	157220	-	see also 14522 line
33097	KUB3	NM_033276.1	761	aaacctgatcggtattattcaaa	157231	-	see also 14522 line
33098	LAP3	NM_015907.1	988	ggcagcccaatgcacaagcaanc	157236	-	see also 14523 line
33099	LAP3	NM_015907.1	851	atctcaaaagtgtcgtagttaa	157234	-	see also 14523 line
33100	LMLN	NM_033029.1	125	gtgttggtctcgaagcgttttact	157241	-	see also 14524 line
33101	LMLN	NM_033029.1	1049	ctggtaacgcctcgtgtgtttga	157261	-	see also 14524 line
33102	LNPEP	NM_005575.1	2933	ctgggggtcctataccatacaaaa	157352	-	see also 3877 line
33103	LNPEP	NM_005575.1	848	tactcggcaaatatatactagttc	157301	-	see also 3877 line
33104	LNPEP	NM_005575.1	843	tagagtactcggcacaatatatct	157300	-	see also 3877 line
33105	LOC51321	NM_016627.1	691	gacagatgggtggggagtattica	157358	-	see also 6962 line
33106	LOC51321	NM_016627.1	806	ttcgacaactattatatattoaga	157361	-	see also 6962 line
33107	LOC51321	NM_016627.1	846	tacttcgatctcgtgaagacttta	157364	-	see also 6962 line
33108	LOC51725	NM_016298.1	1653	ctgcgcctacttgggagtgtacatt	157402	-	see also 14527 line
33109	LOC51725	NM_016298.1	2185	agcccccagagagaggttagtctcc	157411	-	see also 14528 line
33110	LRAP	NM_022350.1	2784	gacttgggctgcattgacataaag	157486	-	see also 14528 line
33111	LRAP	NM_022350.1	1321	aacttatcgcctgttaattgtctaca	157447	-	see also 582 line
33112	LTA4H	NM_000895.1	808	atctggggagaccgtatgtatgg	157514	-	see also 582 line
33113	LTA4H	NM_000895.1	1050	cacatttgcggagcagattgtttgg	157523	-	see also 5200 line
33114	LTB4DH	NM_012212.2	775	cacttggtatcggccagatgaaga	157577	-	see also 5200 line
33115	LTB4DH	NM_012212.2	141	ttgttgggtatcctactaatagt	157551	-	see also 14531 line
33116	MADHIP	NM_004799.1	581	ttgtagccctaatcgtataaactgt	157585	-	see also 14531 line
33117	MADHIP	NM_004799.1	901	tccatgtctgcgattacaagttt	157602	-	see also 6557 line
33118	MBTPS2	NM_015884.1	997	atgcctatgagcccccaattgg	157712	-	see also 6557 line
33119	MBTPS2	NM_015884.1	344	ttggcgtaatgcgatgtttttagc	157693	-	see also 14533 line
33120	MEP1A	NM_005588.1	1387	tacaattcgaaggagatgtgttt	157755	-	see also 14533 line
33121	MEP1A	NM_005588.1	762	gaggctgaaccgaatgtacaatt	157747	-	see also 4142 line
33122	MEP1B	NM_005925.1	1583	tccaatcagcggagtgataactac	157825	-	see also 4142 line
33123	MEP1B	NM_005925.1	2102	atgagctcaaatcgaccaaaattt	157841	-	see also 10157 line
33124	MGC45594	NM_175907.2	959	tacgaaggcgcgtgtagttaa	157862	-	see also 10157 line
33125	MGC45594	NM_175907.2	857	accgctaggctacgcgtccttaagc	157859	-	see also 5209 line
33126	MID2	NM_012216.2	2078	ctctcgtcgaatagttaacttgc	157922	-	see also 5209 line
33127	MID2	NM_012216.2	951	aagcgcacacgcgaactagaataa	157887	-	see also 5209 line

927

図46 (続き)

33128	MIP2P	NM_005932.1	783	caattctgtctgaactttacatc	157940	-	see also 4143 line
33129	MIP2P	NM_005932.1	781	aacacattctgtctgaactttaca	157939	-	see also 4143 line
33130	MIP2P	NM_005932.1	958	tgtgtgggtattccacgtttct	157950	-	see also 4143 line
33131	MIRAB13	NM_033386.1	2433	agcgcaacgtctatcaaatgc	157991	-	see also 14539 line
33132	MIRAB13	NM_033386.1	2430	agcgcaacgtctatcaaatgc	157990	-	see also 14539 line
33133	MIRAB13	NM_033386.1	2334	agctcgggtgctctcctaataag	157989	-	see also 14539 line
33134	MME	NM_000902.2	401	ctccgttacggcaacttgaca	158003	-	see also 586 line
33135	MME	NM_000902.2	399	agctccgttacggcaacttga	158002	-	see also 586 line
33136	MME12	NM_033467.1	2220	ggcccgagttggccatcaatcc	158086	-	see also 14541 line
33137	MME12	NM_033467.1	1245	tgtgtctggccggtattgtgac	158076	-	see also 14541 line
33138	MMP10	NM_002425.1	1275	agcaaggtctccctagactaata	158102	-	see also 14542 line
33139	MMP10	NM_002425.1	917	agcaactctgagggaggaatct	158092	-	see also 14542 line
33140	MMP14	NM_004995.2	1795	gagacggaggtgacatcattga	158124	-	see also 3488 line
33141	MMP14	NM_004995.2	1462	ctgcctaccgacaagattgatgc	158119	-	see also 3488 line
33142	MMP15	NM_002428.1	1318	gagcgcaagacggctgtttgt	158127	-	see also 1565 line
33143	MMP15	NM_002428.1	2007	tgcgcacgtgtctgtcttact	158132	-	see also 1565 line
33144	MMP16	NM_005941.2	457	tcgtgaaagcgatatgcatgga	158146	-	see also 4147 line
33145	MMP16	NM_005941.2	456	ttctgcgaagcgatgcatggtg	158145	-	see also 4147 line
33146	MMP17	NM_016155.2	570	caagggtgctgactcatctact	158205	-	see also 14546 line
33147	MMP17	NM_016155.2	1565	ccacaggtgctctctacttcttc	158212	-	see also 14546 line
33148	MMP19	NM_002429.2	1174	aaggtgtggcctacataattt	158232	-	see also 14547 line
33149	MMP19	NM_002429.2	1519	cactgtctcccgagactataga	158243	-	see also 14547 line
33150	MMP20	NM_004771.2	133	cgcaagaggtatcttgacaaat	158251	-	see also 3283 line
33151	MMP20	NM_004771.2	823	cggaactcggaaagtattctg	158272	-	see also 3283 line
33152	MMP21	NM_147191.1	1347	tcctctgacacggcgttttatg	158304	-	see also 9814 line
33153	MMP21	NM_147191.1	1348	cccttagacacggcgttttatga	158305	-	see also 9814 line
33154	MMP24	NM_006690.2	545	agctagacacgggaaagctatt	158324	-	see also 4723 line
33155	MMP24	NM_006690.2	1285	cgcatogacgagcctctatgaag	158328	-	see also 4723 line
33156	MMP25	NM_022468.3	1815	gtccgaacctgcgattgtcagt	158337	-	see also 14551 line
33157	MMP25	NM_022468.3	1082	cgcccaaaccccatatgacaag	158336	-	see also 14551 line
33158	MMP26	NM_021801.2	741	tgcgatgatatacaaggatcc	158357	-	see also 14552 line
33159	MMP26	NM_021801.2	25	ctgctacttaagagttactat	158340	-	see also 14552 line
33160	MMP27	NM_022122.1	504	tcgtgtctctgctattttgatg	158368	-	see also 14553 line
33161	MMP27	NM_022122.1	501	tgtgtgtgtctctgctattttg	158367	-	see also 14553 line
33162	MMP27	NM_022122.1	505	cggtgtctctgctattttgatg	158369	-	see also 14553 line
33163	MMP28	NM_024302.2	540	ccccgtctgggggtacagatgc	158402	-	see also 8607 line
33164	MMP28	NM_024302.2	1400	tccgcaggtgtcattgaatgat	158410	-	see also 8607 line
33165	MMP9	NM_004994.1	1136	tgcgtacacacctgaacttga	158419	-	see also 14555 line
33166	MMP9	NM_004994.1	1182	ggccggacaagatcacagtgtg	158421	-	see also 14555 line
33167	MNAT1	NM_002431.1	54	ctcgtgtgaagaccacaaatat	158433	-	see also 1566 line
33168	MPI	NM_002435.1	1235	ggcgaaaggacctgtctgatctc	158446	-	see also 14557 line
33169	MPI	NM_002435.1	920	ggcaacctgtgtgaatgctca	158444	-	see also 14557 line
33170	MPPR-1	NM_145243.2	1508	cagacctactacttcaaa	158492	-	see also 14558 line
33171	MPPR-1	NM_145243.2	961	gtgtgtgttccccaatttaa	158471	-	see also 14558 line

図46 (続七)

[illegible]

図 46 (続き)

929

33213	RNF26	NM_032015.3	738	cacacggtagctactagtctct	159693	-	see also 14577 line
33214	RNF26	NM_032015.3	1533	gacctatgagggtattctcagt	159696	-	see also 14577 line
33215	RNF28	NM_032588.2	267	gcggaaagtgcacatgacatc	159697	-	see also 14578 line
33216	RNF28	NM_032588.2	1043	gagacatgagctcttcttctt	159703	-	see also 14578 line
33217	RNF29	NM_033058.2	367	taggaatgtgcagtgatatt	159707	-	see also 14579 line
33218	RNF29	NM_033058.2	261	aaggacagcagaccatggataac	159705	-	see also 14579 line
33219	RNF30	NM_032546.2	480	ggcccaactgccaccatttaca	159728	-	see also 14580 line
33220	RNF30	NM_032546.2	745	cggagagcagaagcagttgttaa	159733	-	see also 14580 line
33221	RNF39	NM_025236.2	480	cgcccgagcctggagttctaat	159737	-	see also 14581 line
33222	RNF39	NM_025236.2	85	gactgagactctggtgaagaga	159734	-	see also 14581 line
33223	RNF6	NM_005977.2	816	accttcggcgacacagaaatgc	159752	-	see also 4172 line
33224	RNF6	NM_005977.2	820	ttcgggcgacaggaatgcaact	159753	-	see also 4172 line
33225	RNF7	NM_014245.2	202	gtcggagagcgacaagatgttct	159821	-	-
33226	RNPEP	NM_020216.3	1239	gaccggacgacacactaatga	159837	-	see also 7802 line
33227	RNPEP	NM_020216.3	573	ttcgacacgctgctgttaata	159825	-	see also 7802 line
33228	RP3A	NM_014954.1	1655	gtcaacaagcttcgtacaaaa	159870	-	see also 14584 line
33229	RP3A	NM_014954.1	1920	gccggagcagtgccctttatga	159875	-	see also 14584 line
33230	RP3A	NM_014954.1	1055	ctcatctagccgagattcagaga	159866	-	see also 14584 line
33231	RTN4IP1	NM_032730.2	1009	agcttggtgacagacatgaatt	159912	-	see also 9278 line
33232	RTN4IP1	NM_032730.2	1353	aagatcggcgagcttattgaaca	159929	-	see also 9278 line
33233	RUFY1	NM_025158.2	552	agcgactagtgtagaatacttc	159938	-	see also 8872 line
33234	RUFY1	NM_025158.2	1362	agcgattactacagatgttctc	159950	-	see also 8872 line
33235	RUFY2	NM_017987.2	366	gcccattactacgtgtcttaatt	159967	-	see also 7189 line
33236	RUFY2	NM_017987.2	963	gagctagcagctacagttgatt	159994	-	see also 7189 line
33237	SORD	NM_003104.3	189	tgccctggagaaactatctatc	160011	-	zinc binding
33238	SORD	NM_003104.3	185	gacttgccctggagaaactatcc	160010	-	see also 33237 line
33239	THOP1	NM_003249.3	1157	ctgggacatgcgtactactatga	160013	-	see also 2189 line
33240	TIMM10	NM_012456.1	182	tgccgatattgacacagaatg	160019	-	see also 14589 line
33241	TIMM10	NM_012456.1	225	gtgtgtccctctcactacaaagg	160021	-	see also 14589 line
33242	TIMM13	NM_012458.2	477	aagtggttcggagagttatagg	160025	-	see also 5338 line
33243	TIMM8B	NM_012459.1	184	agctgtgtgagccgcttctatga	160033	-	see also 14591 line
33244	TIMM8B	NM_012459.1	152	gcctagactctcgcactgaaaat	160029	-	see also 14591 line
33245	TIMM9	NM_012460.2	529	gacttcacacagaagaagttaa	160038	-	see also 14592 line
33246	TIMM9	NM_012460.2	579	ttgcttacagaataatttataaaa	160039	-	see also 14592 line
33247	TP53I3	NM_004881.2	1013	accggagtgctggagctattcc	160043	-	see also 14593 line
33248	TP53I3	NM_004881.2	1330	gaggttaggacacataagtaca	160046	-	see also 14593 line
33249	TRAF2	NM_021138.2	1169	ggcgatacccgccactcttctcc	160055	-	see also 14594 line
33250	TRAF2	NM_021138.2	1431	ggcagtcacagacatgaacatcg	160059	-	see also 14594 line
33251	TRAF3	NM_003300.2	1618	gagcactgtgctgtttttg	160077	-	see also 2231 line
33252	TRAF3	NM_003300.2	1009	gttgagcaactgcgtcgaaaaga	160070	-	see also 2231 line
33253	TRAF4	NM_004295.2	495	ggcgctcaagtgcgagttttgt	160082	-	see also 14596 line
33254	TRAF4	NM_004295.2	292	cccgagagctggaagtacaaagt	160080	-	see also 14596 line
33255	TRAF5	NM_004619.2	1365	ggaggacttctataatggaaa	160121	-	see also 14597 line
33256	TRAF5	NM_004619.2	1382	ctggagggtacttctataatgg	160120	-	see also 14597 line

図46 (続き)

930

33257	TRHDE	NM_013381.1	1141	ggggttgtagtaagattatgc	160155	-	see also 5414 line
33258	TRHDE	NM_013381.1	1137	gagtgagggttagtagcattat	160152	-	see also 5414 line
33259	TRIM10	NM_006778.2	763	ctgcgcgttttagtgccttattg	160239	-	see also 4778 line
33260	TRIM10	NM_006778.2	641	tgcacacactgaggaagtctt	160235	-	see also 4778 line
33261	TRIM11	NM_145214.2	1515	caccgatgggtcactgctattca	160250	-	see also 14600 line
33262	TRIM11	NM_145214.2	1598	ggcgcaccccgatgaactatctgc	160253	-	see also 14600 line
33263	TRIM15	NM_033229.1	720	ggcgcgtggagagaaactactgc	160254	-	-
33264	TRIM17	NM_016102.1	1288	tccaaggggacccaagtactatc	160271	-	see also 14601 line
33265	TRIM17	NM_016102.1	949	tgcagagttccggacagattga	160268	-	see also 14601 line
33266	TRIM31	NM_007028.2	1272	aggagctctcaggatcacagaaga	160283	-	see also 14602 line
33267	TRIM31	NM_007028.2	1349	cagcgatccgggctgtgtttgt	160285	-	see also 14602 line
33268	TRIM31	NM_007028.2	704	tctgtctatcacggttactctgg	160277	-	see also 14602 line
33269	TRIM34	NM_021616.3	684	atcagcttagaagatcctaaat	160290	-	see also 14603 line
33270	TRIM34	NM_021616.3	295	gtgtggtatcagttactatttg	160288	-	see also 14603 line
33271	TRIM35	NM_015066.1	1390	ggcgagagctgtttctatgaag	160312	-	see also 14604 line
33272	TRIM35	NM_015066.1	644	cggaaggagtttgataagcttgc	160310	-	see also 14604 line
33273	TRIM36	NM_018700.2	1898	ttctatgcataaactacaagaat	160373	-	see also 14605 line
33274	TRIM36	NM_018700.2	303	ctctgactctcagatgattcatt	160317	-	see also 14605 line
33275	TRIM37	NM_015294.1	996	tggagttgtcggaggttactact	160413	-	see also 6316 line
33276	TRIM37	NM_015294.1	1003	gtcgagggttactacttcttgt	160416	-	see also 6316 line
33277	TRIM38	NM_006355.2	1337	ctatcacgaactatctctct	160486	-	see also 14607 line
33278	TRIM38	NM_006355.2	1296	aagaggtcatcaagttagtgtga	160484	-	see also 14607 line
33279	TRIM39	NM_021253.2	816	taccgaagtcctccacctaactcg	160496	-	see also 8148 line
33280	TRIM4	NM_033017.2	1325	gaggacgtcatgggaattactga	160528	-	see also 14608 line
33281	TRIM4	NM_033017.2	833	aacacgttaaaactcaatcaaac	160520	-	see also 14608 line
33282	TRIM40	NM_138700.2	781	aggcgcaagaactcttgacatct	160534	-	see also 14609 line
33283	TRIM40	NM_138700.2	495	tgtcaggagacaggtctatctgc	160533	-	see also 14609 line
33284	TRIM41	NM_033549.2	1286	aaccatcataaggaaaaaggttgg	160546	-	see also 14610 line
33285	TRIM41	NM_033549.2	1266	gtgggtgctgcgcgtgaataaac	160544	-	see also 14610 line
33286	TRIM42	NM_152616.3	1332	ctcaagttgcgcagcattcttca	160564	-	see also 9901 line
33287	TRIM42	NM_152616.3	2119	ctctcttaacacgttacaagt	160576	-	see also 9901 line
33288	TRIM42	NM_152616.3	1588	agctccggctgcactcaataaac	160566	-	see also 9901 line
33289	TRIM44	NM_017583.3	1000	ggcgcgtatgctgaattgtgtg	160588	-	see also 7044 line
33290	TRIM44	NM_017583.3	1059	ctcgggacacaaatgaagtgttt	160590	-	see also 7044 line
33291	TRIM44	NM_017583.3	848	gaccatgggttgatttgattac	160585	-	see also 7044 line
33292	TRIM45	NM_025188.1	2232	agcgacccggagagctactactag	160626	-	see also 14613 line
33293	TRIM45	NM_025188.1	1613	tagcacccgtcctgagtaaatg	160608	-	see also 14613 line
33294	TRIM46	NM_025058.1	395	ctggacccggctgcttaagtacgg	160631	-	see also 14614 line
33295	TRIM46	NM_025058.1	811	atgccaacgccttgtagtcaaac	160633	-	see also 14614 line
33296	TRIM47	NM_033452.1	1306	tgcctatatgttgatttgagaca	160648	-	see also 14615 line
33297	TRIM47	NM_033452.1	1380	gggtgctgtgtctctatcaactac	160650	-	see also 14615 line
33298	TRIM5	NM_033034.1	1006	tggatggcgtcataaaafgacg	160659	-	see also 14616 line
33299	TRIM5	NM_033034.1	764	ctggagagctcaaatcacgtatg	160657	-	see also 14616 line
33300	TRIM52	NM_032765.2	956	gggaaacccggagtaagtatcagg	160692	-	see also 14618 line

図46 (続き)

931

33301	TRIM52	NM_032765.2	954	cggggaaccaggagtaaatgca	160891	-	see also 14618 line
33302	TRIM6	NM_058166.2	751	aagaaggagctacgaattataga	160898	-	see also 14619 line
33303	TRIM6	NM_058166.2	1092	gaggttggaggagtaaatgag	160704	-	see also 14619 line
33304	TRIM8	NM_030912.1	1415	ctgtggacaactgttactgtct	160718	-	see also 8960 line
33305	TRIM8	NM_030912.1	1410	ctgttctgtgacaactgttact	160717	-	see also 8960 line
33306	TRIM9	NM_015163.3	608	cgcgtactggaagggttaatga	160725	-	see also 14620 line
33307	TRIM9	NM_015163.3	706	gtgcagacagtgcgagtgtctt	160726	-	see also 14620 line
33308	TSBF1	NM_173084.1	818	gtgatgtggcaacttaataat	160756	-	see also 14621 line
33309	TSBF1	NM_173084.1	1028	atctcgtgagtaagcaaatattg	160766	-	see also 14621 line
33310	WDFY1	NM_020830.2	826	tcctcggagcggcgaattgcagt	160789	-	see also 14622 line
33311	WDFY1	NM_020830.2	1196	gtgggacccgacgcattgttaag	160797	-	see also 14622 line
33312	WDFY2	NM_052950.2	935	agcacacgcgcacaattgatctc	160821	-	see also 9467 line
33313	WDFY2	NM_052950.2	360	gccaaagcgtataccatgcattgc	160806	-	see also 9467 line
33314	WDFY2	NM_052950.2	930	tgcaacagcacgcgcacaattga	160819	-	see also 9467 line
33315	ZADH1	NM_152444.1	1001	cccgcctatccctgcttatagagg	161164	-	see also 14623 line
33316	ZADH1	NM_152444.1	1102	tacagctgagtcagtggttaaa	161166	-	see also 14623 line
33317	ZADH1	NM_152444.1	841	cagacacagctccgtgaattatgc	161154	-	see also 14623 line
33318	ZFPL1	NM_006782.2	779	cgcccttagtagaagggttatgata	161174	-	see also 14624 line
33319	ZFPL1	NM_006782.2	421	cggcacctgcggctatcagtcgc	161171	-	see also 14625 line
33320	ZFYVE1	NM_021260.1	2030	cagtatgacaacccgagtgatatac	161203	-	see also 14625 line
33321	ZFYVE1	NM_021260.1	2458	gtgagcagctgctttaagata	161210	-	see also 14625 line
33322	ZFYVE16	NM_014733.1	4311	ggcttcgctgagctttacgaga	161356	-	see also 5923 line
33323	ZFYVE16	NM_014733.1	3440	tgctaatctactctgtaattgca	161326	-	see also 5923 line
33324	ZFYVE16	NM_014733.1	604	tggagcagatgtagtaaacctatc	161224	-	see also 5923 line
33325	ZFYVE19	NM_032850.3	299	ctgcagtagcggctgtaagaattg	161372	-	see also 9313 line
33326	ZFYVE19	NM_032850.3	196	gtgcgtgagtgtagattaccaca	161370	-	see also 9313 line
33327	ZFYVE20	NM_022340.1	980	agctgtagacgcctttaagtaag	161401	-	see also 8332 line
33328	ZFYVE20	NM_022340.1	979	ggctgtagagcgcctttaagtaa	161400	-	see also 8332 line
33329	ZFYVE21	NM_024071.2	445	ttgtcgttttccaataaccaga	161418	-	see also 14629 line
33330	ZFYVE21	NM_024071.2	491	agccactatgaattcgaaattgt	161422	-	see also 14629 line
33331	ZFYVE26	NM_015346.2	3118	ggcgaacgggtttgaattagtag	161461	-	see also 14630 line
33332	ZFYVE26	NM_015346.2	3114	gacagccgaacggcgtttgaata	161459	-	see also 14630 line
33333	ZNF185	NM_007150.1	45	aacgccaggcacccctacaatac	161524	-	see also 14631 line
33334	ZNF185	NM_007150.1	1235	atccgagactgtccaagattac	161536	-	see also 14631 line
33335	ZNF198	NM_003453.2	914	gacggcgagatatgaacttaact	161553	-	see also 2319 line
33336	ZNF505	NM_031218.2	506	gacttaaccaggtgtagtacaact	161659	-	see also 14633 line
33337	ZNF505	NM_031218.2	325	ggcaacccctcagttatatgttc	161656	-	see also 14633 line
33338	AGMAT	NM_024758.3	451	tgcttggagcagtcacatcctagc	161661	-	see also 14634 line
33339	AGMAT	NM_024758.3	516	ggcagatgtaattgcaacttta	161663	-	see also 14634 line
33340	ARG1	NM_000045.2	159	ctgtctcgttggagaaactaaa	161678	-	see also 14635 line
33341	ARG1	NM_000045.2	356	gaccacagttggcaattggag	161680	-	see also 14635 line
33342	ARG2	NM_001172.2	400	gcctggcaatggtaaccattagt	161705	-	see also 14636 line
33343	ARG2	NM_001172.2	170	tgctccgcctgccataagagaag	161699	-	see also 14636 line
33344	B3GAT1	NM_018644.2	351	acccctgctcgggttacatagg	161722	-	see also 14637 line

932

図46 (続き)

33345	B3GAT1	NM_018644.2	350	caccctctcgcgggtacataag	161721	-	see also 14637 line
33346	B3GAT2	NM_080742.1	38	tgccctggatcctaattgtcato	161731	-	see also 14638 line
33347	B3GAT2	NM_080742.1	39	gccttgatcctaattgtcatca	161732	-	see also 14638 line
33348	B3GAT2	NM_080742.1	721	gccatcacatcgcagatttgc	161734	-	see also 14638 line
33349	B3GAT3	NM_012200.2	250	tgctactatctatgttggttacc	161748	-	see also 5189 line
33350	B3GAT3	NM_012200.2	584	gaccacaaggagctgctactttg	161749	-	see also 5189 line
33351	B4GALT6	NM_004775.2	455	taagctcaacgggtacagattatc	161768	-	see also 14639 line
33352	B4GALT6	NM_004775.2	729	ttccgtaatcgccatgaacatct	161781	-	see also 14639 line
33353	B4GALT6	NM_004775.2	376	tacaagctcagagataatgttg	161785	-	see also 14639 line
33354	CDIPT	NM_006319.2	716	atccgggtcttggatctactac	161805	-	see also 4421 line
33355	CDIPT	NM_006319.2	717	tcgggtgcttggatctactaca	161806	-	see also 4421 line
33356	DCD	NM_053283.1	370	gagctccttgactcaagttactata	161814	-	see also 14641 line
33357	DCD	NM_053283.1	351	agccgtctcagcaggttaagagag	161813	-	see also 14641 line
33358	DKFZP566 E144	NM_015523.1	307	aaggtcctaaccctgattataaaa	161820	-	see also 6447 line
33359	E144	NM_015523.1	308	aggtcctaaccctgattataaaa	161821	-	see also 6447 line
33360	GALNT1	NM_020474.2	1491	aacttaattggcccagttacaatg	161860	-	see also 7884 line
33361	GALNT1	NM_020474.2	1345	aacgaatcagtgcttagataaca	161855	-	see also 7884 line
33362	NPEPL1	NM_024663.2	1021	tgcgacaagccagatgacatcc	161868	-	see also 14644 line
33363	NPEPL1	NM_024663.2	949	cgcaatcaagcaggggttcaag	161867	-	see also 14644 line
33364	PDE8A	NM_002605.1	2320	accgagccctaatacaaacgaatg	161925	-	see also 1685 line
33365	PDE8A	NM_002605.1	989	ggctgacttgctcgtactataaa	161897	-	see also 1685 line
33366	PDE8B	NM_003719.1	72	ctcgcagagcggcgtgactact	161932	-	see also 2547 line
33367	PDE8B	NM_003719.1	1298	ttgacgtgaatcgtatcatctct	161963	-	see also 2547 line
33368	PDE9A	NM_002606.1	275	aacgcactcgtcaaacagtgaga	161995	-	see also 14647 line
33369	PDE9A	NM_002606.1	1453	aacgaggtccgtccaatggaggt	162012	-	see also 14647 line
33370	PEPD	NM_000285.1	839	ttcgacatggcggctgagattta	162021	-	see also 248 line
33371	PEPD	NM_000285.1	840	tcgacatggcggctgagatttac	162022	-	see also 248 line
33372	POFUT1	NM_015352.1	493	tgcccatctctgggacatcagttc	162028	-	see also 14648 line
33373	POFUT1	NM_015352.1	524	ttcaacaagtcggagcgtttttac	162030	-	see also 14648 line
33374	PPM1A	NM_021003.2	882	tgccaggtggctctgtaatgattc	162060	-	see also 14649 line
33375	PPM1A	NM_021003.2	497	gacttgaatcgttggtcatctttt	162049	-	see also 14649 line
33376	PPM1B	NM_002706.3	1419	cccatgtcctgcgcactcttgtct	162106	-	see also 14650 line
33377	PPM1B	NM_002706.3	1264	tcgagataaacatgagttatgtac	162103	-	see also 14650 line
33378	PPM1D	NM_003620.2	692	tgccggaatggcccaagactatg	162121	-	see also 14651 line
33379	PPM1D	NM_003620.2	286	gagcaacttactcaaatcgttgtt	162115	-	see also 14651 line
33380	PPM1F	NM_014634.2	1025	aagcatgtgggtggctttgtgtct	162154	-	see also 14652 line
33381	PPM1F	NM_014634.2	685	cgcgcctacttctgtgtgtttga	162153	-	see also 14652 line
33382	PPM1G	NM_002707.3	1222	tagaactagcaagcatcaagaat	162166	-	see also 14653 line
33383	PPM1G	NM_002707.3	549	gaggctaccatgactattgaaga	162160	-	see also 14653 line
33384	PPP1CA	NM_002708.2	239	ctcaagatctcgggtgacataca	162170	-	see also 14654 line
33385	PPP1CA	NM_002708.2	272	tacgacctctcgcactatttga	162171	-	see also 14654 line
33386	PPP1CA	NM_002708.2	720	acgaccgtggcgtctcttttacc	162180	-	see also 14654 line

933

図46 (続き)

33387	PPP1CB	NM_002709.1	961	ctgaatcgtcatgattagatt	162202	-	see also 1763 line
33388	PPP1CC	NM_002710.1	1084	aacgcctccaagggtatgaca	162234	-	see also 14656 line
33389	PPP1CC	NM_002710.1	1086	cgctccaagggtatgacaca	162235	-	see also 14656 line
33390	PPP2CA	NM_002715.1	1036	tgaactgaacatactctaaaa	162262	-	see also 1767 line
33391	PPP2CA	NM_002715.1	966	gaacggaatgtatgaacatttt	162253	-	see also 1767 line
33392	PPP2CA	NM_002715.1	717	ctctgcacatctatagatacact	162246	-	see also 1767 line
33393	PPP2CB	NM_004156.1	371	atcacgaagccacaaattacc	162273	-	see also 14658 line
33394	PPP2CB	NM_004156.1	245	cacggatacaaacactattt	162266	-	see also 14658 line
33395	PPP4C	NM_002720.1	733	cccgaaggagccggctacattt	162292	-	see also 14659 line
33396	PPP4C	NM_002720.1	651	aagcaagagggtcctcatgagg	162291	-	see also 14659 line
33397	PPP5C	NM_006247.2	840	ctcggagaaccaacccctatat	162302	-	see also 14660 line
33398	PPP5C	NM_006247.2	736	ctcgtggaacacacacbaaaga	162299	-	see also 14660 line
33399	PPP6C	NM_002721.3	142	agcggctatgtgactacgttgt	162308	-	see also 1768 line
33400	PPP6C	NM_002721.3	962	aacgacacgccatattccctt	162333	-	see also 1768 line
33401	SOD2	NM_000636.1	283	tggctatcatcatagcattt	162337	-	see also 421 line
33402	ABP1	NM_001091.1	1286	tgcggatgaccggctccattatc	162360	-	see also 14662 line
33403	ABP1	NM_001091.1	1287	gccgatgaccgggtccattatcc	162361	-	see also 14662 line
33404	AO2	NM_001158.2	1482	tccatgccacgggttatcaac	162388	-	see also 14663 line
33405	AO2	NM_001158.2	809	ttctacctgggcactactatgc	162369	-	see also 14663 line
33406	AO2	NM_001158.2	1244	atggtggacacacatatattagt	162380	-	see also 14663 line
33407	AO3	NM_003734.2	1563	tgtctcaactgactatgtgtgg	162401	-	see also 14664 line
33408	AO3	NM_003734.2	937	gactatccagaagggtgtctatc	162400	-	see also 14664 line
33409	ATOX1	NM_004045.2	379	ctgcttgcaacctgaagaaac	162407	-	see also 14665 line
33410	ATOX1	NM_004045.2	285	ctctcgggtctccaataagcttg	162406	-	see also 14665 line
33411	CGS	NM_005125.1	438	atcagtcacggggacccttaaac	162411	-	see also 14666 line
33412	CGS	NM_005125.1	625	tggccgaagcctgattattgatg	162412	-	see also 14666 line
33413	CP	NM_000096.1	1920	ttcgggtcgtgtggtactattca	162491	-	see also 14667 line
33414	CP	NM_000096.1	1427	agccgattagggtgagatcaat	162476	-	see also 14667 line
33415	DBH	NM_000787.2	732	ctctcggcacacattatcaagt	162511	-	see also 487 line
33416	DBH	NM_000787.2	1047	ctcaggatccgcctgtactaca	162517	-	see also 487 line
33417	DCT	NM_001922.2	1783	atcgatctgccagtttcaagtga	162554	-	see also 1222 line
33418	DCT	NM_001922.2	1216	gacgatccgactcgtattgtcg	162537	-	see also 1222 line
33419	F5	NM_000130.2	6228	ctccaactcagagcctataacaga	162703	-	see also 116 line
33420	F5	NM_000130.2	6389	cccttcggtccgctcgtgaatgc	162707	-	see also 116 line
33421	F8	NM_000132.2	7134	gactcgtcacttcggaattcacc	162916	-	see also 117 line
33422	F8	NM_000132.2	7115	ctctgaccacccggttaactgact	162914	-	see also 117 line
33423	FLJ12892	NM_022757.3	5890	aggtgactcgaactaagaatta	162961	-	see also 14672 line
33424	FLJ12892	NM_022757.3	5983	ctgaggataaacctaccacaaatca	162968	-	see also 14672 line
33425	HEPH	NM_014799.2	2553	atggagtgctagaatctactact	163018	-	see also 14673 line
33426	HEPH	NM_014799.2	2229	ctcgaagaatctactatcatatg	163008	-	see also 14673 line
33427	HYAL4	NM_012269.1	2063	aagttatcgaagcattcagttgt	163072	-	see also 14674 line
33428	HYAL4	NM_012269.1	930	tactatcogtggatatacaca	163049	-	see also 14674 line
33429	LOX	NM_002317.3	804	ctctgacgacacccattatca	163076	-	see also 1490 line
33430	LOX	NM_002317.3	809	acgacaaacccttattacaactac	163078	-	see also 1490 line

図 46 (続き)

934

33431	LOXL1	NM_005576.1	1956	aacgtggtgagatgcaacattca	163097	-	see also 14676 line
33432	LOXL1	NM_005576.1	1911	cagtgtaaccacaaagtattgt	163095	-	see also 14676 line
33433	LOXL2	NM_002318.1	2529	agcacttaagcggctctttaaac	163121	-	see also 14677 line
33434	LOXL2	NM_002318.1	359	cagcaaccggctctctgagatca	163099	-	see also 14677 line
33435	LOXL3	NM_032603.2	1353	ggggcggatcgagggtgcaataag	163131	-	see also 9258 line
33436	LOXL3	NM_032603.2	568	gtgagagaggtggaattogacc	163127	-	see also 9258 line
33437	LOXL4	NM_032211.5	1375	cagggtgcaatgtccctaacatgg	163146	-	see also 14678 line
33438	LOXL4	NM_032211.5	2297	cagtgccctgcaagtattgatgg	163152	-	see also 14678 line
33439	MASS1	NM_032119.1	15764	ttgggccatccattgtttattt	163650	-	see also 14679 line
33440	MASS1	NM_032119.1	13823	cagtgagcgggttctcttattt	163582	-	see also 14679 line
33441	MOXD1	NM_015529.1	909	tocattagatccattatgtgc	163745	-	see also 6452 line
33442	MOXD1	NM_015529.1	1352	gtcgtacaacacaaagataga	163755	-	see also 6452 line
33443	PAM	NM_000919.2	579	aacagtccgatactactctgac	163773	-	see also 595 line
33444	PAM	NM_000919.2	573	cacctaaacagtcagatactac	163771	-	see also 595 line
33445	PAM	NM_000919.2	2807	ttggaacatgcagtgtaaaaa	163830	-	see also 595 line
33446	SCO2	NM_005138.1	679	tggccaggctagtacagttacc	163841	-	see also 14682 line
33447	SCO2	NM_005138.1	787	cggcctcttcacggattactacg	163844	-	see also 14682 line
33448	SLC14A2	NM_007163.2	909	ctcgacatcccgatactcacc	163845	-	see also 4965 line
33449	SLC14A2	NM_007163.2	3247	aacagcaacctcgatcgatagc	163862	-	see also 4965 line
33450	SLC15A4	NM_145648.1	1217	ctggctgatcccttttgagaag	163890	-	see also 9791 line
33451	SLC15A4	NM_145648.1	751	ctggctggccttgctttgtg	163874	-	see also 9791 line
33452	SLC15A4	NM_145648.1	749	gtctgctggcctgctttgt	163873	-	see also 9791 line
33453	SLC35B2	NM_178148.1	721	ggcaatacgaagctcttaagttc	163903	-	see also 14685 line
33454	SLC35B2	NM_178148.1	258	ggctatccagctttatggtacc	163900	-	see also 14685 line
33455	TRRAP	NM_003496.1	10189	gagcgggtccgagtgctaaatc	164099	-	see also 14686 line
33456	TRRAP	NM_003496.1	10190	agcgggtgcgatgctaaatca	164100	-	see also 14686 line
33457	TRRAP	NM_003496.1	5816	ggcgacacattatgccaaattcg	164024	-	see also 14686 line
33458	FTHL17	NM_031894.1	273	tgcgctgtcggagcacaatg	164128	-	-
33459	FTHL17	NM_031894.1	196	ctctacactgtactgtctgtg	164127	-	ferric iron binding -
33460	LTF	NM_002343.1	744	gacacttgcattcttgaatt	164135	-	see also 33458 line
33461	LTF	NM_002343.1	611	gacagccacgaactcactattat	164133	-	see also 14687 line
33462	LTF	NM_002343.1	393	acccgagggccacaaatgcttc	164130	-	see also 14687 line
33463	MF12	NM_005929.3	345	ggcgggtgtggcgaagtgaag	164150	-	see also 14688 line
33464	MF12	NM_005929.3	454	tcctgcacacgggcacatcgc	164153	-	see also 14688 line
33465	MTF	NM_177478.1	204	ctctgggtgcgcgaacttcc	164173	-	see also 14689 line
33466	MTF	NM_177478.1	683	tggggaggtacctttttgacaca	164180	-	see also 14689 line
33467	RSHL1	NM_030785.1	1399	ggcgtcaggcggcccaacagtac	164184	-	see also 14690 line
33468	RSHL1	NM_030785.1	625	ccagcaacgggcttacaataagg	164183	-	see also 14690 line
33469	RSHL1	NM_030785.1	624	ggccagcagggccttacaataag	164182	-	see also 14690 line
33470	TF	NM_001063.2	1893	tgcgtcacagaatattacgtca	164232	-	see also 14691 line
33471	TF	NM_001063.2	724	agcactgactatttgaagac	164208	-	see also 14691 line
33472	TF	NM_001063.2	854	taccgtgtggcccggaagtgg	164214	-	see also 14691 line
33473	FECH	NM_000140.1	32	ggcttactctggcggcaaacatgg	164238	-	see also 126 line
33474	FECH	NM_000140.1	1018	tcctctgtggtccgatagcattt	164270	-	see also 126 line

図46 (続き)

935

33475	ACO2	NM_001098.1	1150	tcgagtgagcttaattgttagc	164293	-	see also 14693 line
33476	ACO2	NM_001098.1	1149	atccgagtgagcttaattgttag	164292	-	see also 14693 line
33477	ACO2	NM_001098.1	1146	gacatccgagtgagcttaattgg	164291	-	see also 14693 line
33478	ADHFE1	NM_144650.1	237	ctgtgcaagttagtgattgcc	164301	-	see also 14694 line
33479	ADHFE1	NM_144650.1	830	ctgctggatcgtgcttaagtatc	164313	-	see also 14694 line
33480	ALOX12	NM_000697.1	1477	ttctaccaagagtagacatagt	164345	-	see also 14695 line
33481	ALOX12	NM_000697.1	1950	agcccggaatgagcaattgact	164352	-	see also 14695 line
33482	ALOX12B	NM_001139.1	1950	tcgatatgtactatagttao	164370	-	see also 726 line
33483	ALOX12B	NM_001139.1	2055	tgcggaatccaccgattcagact	164372	-	see also 726 line
33484	ALOX12B	NM_001139.1	529	tgcgcccaacgcccgtatacc	164355	-	see also 726 line
33485	ALOX15	NM_001140.3	1151	ggcgtcatatcatctattcca	164381	-	see also 14697 line
33486	ALOX15	NM_001140.3	1191	ctgggatcacccctggaaattaa	164384	-	see also 14697 line
33487	ALOX15B	NM_001141.1	1007	cccaatgacccctgataccaga	164393	-	see also 14698 line
33488	ALOX15B	NM_001141.1	1479	ggctactactaccgtatgtgg	164395	-	see also 14698 line
33489	ALOX5	NM_000698.1	429	aagcaaacaccgactgaagaact	164403	-	see also 14699 line
33490	ALOX5	NM_000698.1	538	cccggtatataccagttgtatgt	164405	-	see also 14699 line
33491	ALOXE3	NM_021628.1	767	accgaacccggtatgtatgtatc	164435	-	see also 14700 line
33492	ALOXE3	NM_021628.1	637	ccctggatcgggtacagaaataca	164432	-	see also 14700 line
33493	FDX1	NM_004109.3	469	accgtgatgtgaaacatttaaca	164450	Smad3/Sp-1 heterodimer	-
33494	FDX1	NM_004109.3	770	tgcgagcaatccattgattggg	164451	-	see also 33493 line
33495	NIFU	NM_014301.1	363	aagatgtggatgctagtttttaa	164458	-	see also 14701 line
33496	NIFU	NM_014301.1	317	atgtgtgacgtgaatgaattac	164456	-	see also 14701 line
33497	PAH	NM_000277.1	1334	ttgggacatgtgccctgttttc	164472	-	see also 14702 line
33498	PAH	NM_000277.1	1670	aggaaacttctgcccaatacc	164479	-	see also 14702 line
33499	SCD	NM_005063.3	775	tgcgccctacggctctttctgac	164482	Sterol regulatory element binding protein-1a	-
33500	SCD4	NM_024906.1	717	ttcgcaagcatcgagatgtatt	164485	-	see also 14703 line
33501	SCD4	NM_024906.1	871	gtggcatcaaggcgcatattga	164490	-	see also 14703 line
33502	TH	NM_000360.2	803	agcggtacacgggaagacaatat	164499	-	see also 14704 line
33503	TH	NM_000360.2	802	cagcggtctacgggaagacaata	164498	-	see also 14704 line
33504	TPH1	NM_004179.1	421	tacgtaaaogtcgaaagtattt	164514	-	see also 2805 line
33505	TPH1	NM_004179.1	422	accgtaaacgtgaaagtatttt	164515	-	see also 2805 line
33506	TPH1	NM_004179.1	412	gacaatgtctacgttaacgtcg	164513	-	see also 2805 line
33507	TPH2	NM_173353.2	1113	tcactacttcgggactcctaagt	164560	-	see also 10062 line
33508	TPH2	NM_173353.2	430	aggaaatctcggcggaagagttc	164542	-	see also 10062 line
33509	AOX1	NM_001159.2	1670	gagttatgcatctcatatggagg	164610	-	see also 14707 line
33510	AOX1	NM_001159.2	1607	gcctagcgatagtaoattcagg	164607	-	see also 14707 line
33511	SUOX	NM_000456.1	1167	gtcccatgtgcgtgagttactgg	164678	-	see also 14708 line
33512	SUOX	NM_000456.1	965	ctcaggagtcacacacacatatac	164676	-	see also 14708 line
33513	XDH	NM_000379.2	3274	agcgagacaagcactaacactgt	164741	-	see also 302 line
33514	XDH	NM_000379.2	435	tggcatcgtcgtgagttgaca	164691	-	see also 302 line
33515	AFP	NM_001134.1	969	ctgggaacgttggtcaatgataat	164774	-	see also 14710 line

936

図46 (続き)

33516	AFP	NM_001134.1	967	cgctgggaacgtggtcaatgata	164773	-	see also 14710 line
33517	AFP	NM_001134.1	1469	gggagcggcgtgacattattatg	164795	-	see also 14710 line
33518	ADCY2	NM_020546.1	3231	aogtgacacctgtggaggataat	164873	-	see also 7895 line
33519	ADCY2	NM_020546.1	2322	gtgtctcgtcggtgtaaacatga	164861	-	see also 7895 line
33520	ADCY3	NM_004036.2	2567	ttggaggagacagacttaactatg	164897	-	see also 14712 line
33521	ADCY3	NM_004036.2	2531	ggcgctccgctcttggatgaatc	164894	-	see also 14712 line
33522	ADCY4	NM_139247.2	2424	ggcctcgccagaatgagtactact	164934	-	see also 14713 line
33523	ADCY4	NM_139247.2	1835	cagctctggccatcacgtatagc	164930	-	see also 14713 line
33524	ADCY5	NM_183357.1	2643	ggcggagtcggccgtcaactaca	164951	-	see also 14714 line
33525	ADCY5	NM_183357.1	2886	caacgcccaacggccatagacttct	164952	-	see also 14714 line
33526	ADCY6	NM_015270.2	2588	atcgatgcccgccagcattgatca	164961	-	see also 6300 line
33527	ADCY6	NM_015270.2	3986	ggggctcgggaagccacagtatga	164971	-	see also 6300 line
33528	ADCY7	NM_001114.1	2217	gggggaacgtctgcactatctct	164974	-	see also 697 line
33529	ADCY7	NM_001114.1	2912	gcctccgtgcccggacttcaagt	164981	-	see also 697 line
33530	ADCY8	NM_001115.1	5389	ggcgttctggcgcttaagaaacc	165043	-	see also 698 line
33531	ADCY8	NM_001115.1	2519	ttcttaatgggggctatagctac	164993	-	see also 698 line
33532	ADCY9	NM_001116.1	2728	tgccgtcgtgcactacttaact	165088	-	see also 704 line
33533	ADCY9	NM_001116.1	1905	ggccttctgcgggaatcacattt	165075	-	see also 704 line
33534	ADCY9	NM_001116.1	2891	ggagggaacccggtgcaatagttc	165097	-	see also 712 line
33535	ADK	NM_001123.2	580	caggctccctcatgactaatcttg	165113	-	see also 712 line
33536	ADK	NM_001123.2	985	aggggagagatgacactataatgg	165128	-	see also 712 line
33537	ADPRH	NM_001125.2	1174	tgccacccgagcccttttccatg	165143	-	see also 14720 line
33538	ADPRH	NM_001125.2	1271	ccctccactatgagaaactaga	165149	-	see also 14720 line
33539	ALPI	NM_001631.2	910	ggcccgaggagacagaaatataga	165153	-	see also 14721 line
33540	ALPI	NM_001631.2	912	ggccggagagacgaaatagaga	165154	-	see also 14721 line
33541	ALPL	NM_000478.2	247	atgatttccactctcttact	165158	-	see also 14722 line
33542	ALPL	NM_000478.2	342	aggcgaagagacactgaatatg	165161	-	see also 14722 line
33543	B3GALT3	NM_003781.2	907	ggcccaatgccaaagtagcgaatg	165189	-	see also 2586 line
33544	B3GALT3	NM_003781.2	1010	cacagggtatctctctaatgata	165194	-	see also 2586 line
33545	ODS1	NM_001263.2	1024	ttcgtacacatagatttatatca	165222	-	see also 827 line
33546	ODS1	NM_001263.2	1018	tcctcattcgtctaccatgattt	165221	-	see also 827 line
33547	CERK	NM_022766.4	1540	aggcctttgggacacatttgaagc	165274	-	see also 14725 line
33548	CLDN16	NM_006580.2	417	tgtgtgggaatgcgtcacaaatgc	165294	-	see also 14726 line
33549	CLDN16	NM_006580.2	596	ccctgtatggccgtgacataaag	165303	-	see also 14726 line
33550	COMT	NM_000754.2	918	ttgagtgcacacactacaatcgc	165317	-	see also 14727 line
33551	COMT	NM_000754.2	700	tggagggtcccgaggacatcacc	165316	-	see also 14727 line
33552	DKFZp761	NM_152542.2	825	agccctattggagatggtattg	165326	-	see also 14728 line
33553	DKFZp761	NM_152542.2	826	ggcctattggagatggtattga	165327	-	see also 14728 line
33554	DUT	NM_001948.2	419	tgcgaacggattttttatccaga	165338	-	phosphatase pseudouridylate synthase
33555	DUT	NM_001948.2	424	acgagattttttatccagaaatag	165339	-	see also 33554 line
33556	ENO2	NM_001975.2	1186	gtgaccaaccccaaacacgtatga	165355	-	see also 1258 line

図 46 (続き)

937

33557	EN02	NM_001975.2	336	agcctctacgggcatctatgagg	165340	-	see also 1258 line
33558	EN03	NM_001976.2	1308	ctcggagcgtctggccaataaca	165371	-	see also 14730 line
33559	EN03	NM_001976.2	315	agctatgatggagccgagaaataag	165361	-	see also 14730 line
33560	ENPD1	NM_001776.2	298	aggagctaacgtgaagacattt	165372	-	see also 1159 line
33561	ENPD1	NM_001776.2	729	fgcctatggctggattactatca	165389	-	see also 1159 line
33562	ENPD2	NM_001246.1	171	cacgtccatgtttatctacaagt	165412	-	magnesium binding
33563	ENPD2	NM_001246.1	636	ctctaccagatcaactttgaga	165413	-	see also 33562 line
33564	ENPD2	NM_001246.1	994	ttctcccgatgtctttcaatgg	165414	-	see also 33562 line
33565	ENPD3	NM_001248.1	284	accacagctacgtgtatcaatg	165421	-	see also 14732 line
33566	ENPD3	NM_001248.1	241	aggagctgaagtatggtattgco	165418	-	see also 14732 line
33567	ENPD5	NM_001249.1	754	tccgacgaagcatattagcttg	165455	-	see also 14733 line
33568	ENPD5	NM_001249.1	755	ccgacgaaggcatattagcttg	165456	-	see also 14733 line
33569	ENPD6	NM_001247.1	978	gacggcactcgggaattgaaca	165476	-	see also 14734 line
33570	ENPD6	NM_001247.1	1502	agctcaactcggaaaattgcaaat	165482	-	see also 14734 line
33571	FACL2	NM_001995.2	1624	cccgatgcggtgcaattgataa	165523	-	see also 14735 line
33572	FACL2	NM_001995.2	1290	accggatgttgacgaatttc	165518	-	see also 14735 line
33573	FACL2	NM_001995.2	1623	ccccgatgccgtgcaatttgata	165522	-	see also 14735 line
33574	FACL3	NM_004457.2	1510	tgcacacccagcagcattcatga	165582	-	see also 14736 line
33575	FACL3	NM_004457.2	1516	cacgcagcagattcatgaacatct	165584	-	see also 14736 line
33576	FACL4	NM_004458.1	1734	aaccacgaggtgaaatcgttaat	165668	-	see also 3001 line
33577	FACL5	NM_016234.2	1342	tccttaacaggatctacgataag	165712	-	see also 14737 line
33578	FACL5	NM_016234.2	1509	ggcgaagaaggctogtgaattgt	165717	-	see also 14737 line
33579	FACL6	NM_015256.1	670	atccgctacatcaataacacagc	165738	-	see also 14738 line
33580	FACL6	NM_015256.1	662	ctgggggtatccgctacatc	165735	-	see also 14738 line
33581	FDF1	NM_004462.2	466	cccaacgatctcccttgagttta	165770	-	see also 3012 line
33582	FDF1	NM_004462.2	285	tgcgcaacgcagtgcatattt	165765	-	see also 3012 line
33583	FDF1	NM_004462.2	1184	accatccggagcagcagaattcc	165788	-	see also 3012 line
33584	FMO2	NM_001460.1	1369	gacgagctcgccttagagataag	165821	-	see also 14740 line
33585	FMO2	NM_001460.1	715	tgggtcatgagcgtatctcga	165803	-	see also 14740 line
33586	GRIN1	NM_000832.4	3507	ctgcgaccttacttttggagac	165845	-	see also 14741 line
33587	GRIN1	NM_000832.4	2661	ggcgacagatcatcagatttcc	165834	-	see also 14741 line
33588	GRIN2A	NM_000833.2	2498	tacgatgccgagctcttgaatta	165889	-	see also 544 line
33589	GRIN2A	NM_000833.2	3812	aaccggaaaccttggcataatga	165913	-	see also 544 line
33590	GRIN2A	NM_000833.2	3368	tcataagccaggttccactatc	165907	-	see also 544 line
33591	GRIN2B	NM_000834.2	4050	tacccagagcccgactaatttc	165979	-	see also 546 line
33592	GRIN2B	NM_000834.2	3356	cagtgccacgacgacttgatcc	165973	-	see also 546 line
33593	GRIN2C	NM_000835.2	2254	agcgaaacatccgagtaactao	165997	-	see also 14744 line
33594	GRIN2C	NM_000835.2	453	cacgtccacggcattgtttga	165988	-	see also 14744 line
33595	GRIN2C	NM_000835.2	1310	ctggagacatgggtctctataca	165990	-	see also 14744 line
33596	GRIN2D	NM_000836.1	1872	ctgtgtcgcgtcactgttttc	166006	-	see also 14745 line
33597	GRIN2D	NM_000836.1	1091	ctgcgtgattatgtttcttcc	166002	-	see also 14745 line
33598	HPCL2	NM_012260.1	294	tgtcgtccgaggttgatgatc	166021	-	see also 5241 line
33599	HPRT1	NM_000194.1	100	ccctggcgctggttagtgatg	166070	-	see also 14747 line
33600	HPRT1	NM_000194.1	226	acgtcttgctcgagatgtatga	166074	-	see also 14747 line

938

図46 (続き)

33601	ID11	NM_004508.2	538	tacgtgtgttagtcacattaa	166098	-	see also 14748 line
33602	ID11	NM_004508.2	863	aagataacgccattgttttaaat	166109	-	see also 14748 line
33603	ID11	NM_004508.2	464	ttcaacaccgaaataaagcttct	166095	-	see also 14748 line
33604	ID12	NM_033261.2	551	cccgatcccggtgaacgaaaa	166122	-	see also 14749 line
33605	ID12	NM_033261.2	640	aagtacccccctgctaaagacc	166127	-	see also 14749 line
33606	ILKAP	NM_030768.2	832	cggagatagtcgggcaatctgt	166140	-	see also 8943 line
33607	ILKAP	NM_030768.2	843	gggcaattctgttgttataat	166143	-	see also 8943 line
33608	IMPA1	NM_005536.2	795	ggcgtgtaataagatgttacagg	166162	-	see also 14751 line
33609	IMPA1	NM_005536.2	713	tggcgagagcagatgcattatg	166156	-	see also 14751 line
33610	ITGAE	NM_002208.3	3147	tgcgtcccaaccaaataccagg	166195	-	see also 14752 line
33611	ITGAE	NM_002208.3	1055	caccgatgtggcatatcgagg	166173	-	see also 14752 line
33612	ITGAL	NM_002209.1	1002	aaccgcgcgagcgagttgtgaaa	166213	-	see also 14753 line
33613	ITGAL	NM_002209.1	1319	ctgcctcccgccgcaaaagactc	166221	-	see also 14753 line
33614	ITGAM	NM_000632.2	773	tggtagcagagctgttaacatc	166255	-	see also 14754 line
33615	ITGAM	NM_000632.2	773	aagtgttacgagcgtgttaac	166254	-	see also 14754 line
33616	ITGAX	NM_000887.3	905	ggcatatccgctatgcaattgg	166303	-	see also 14755 line
33617	ITGAX	NM_000887.3	3434	atcacagcggtagctgtacaaagt	166316	-	see also 14755 line
33618	LYSAL1	NM_004901.1	261	taccgaattatggtcattagt	166323	-	see also 3404 line
33619	LYSAL1	NM_004901.1	382	ggcagcagattacgaattgaag	166328	-	see also 3404 line
33620	LYSAL1	NM_004901.1	253	taccaatttacccaaattatgg	166322	-	see also 3404 line
33621	MTDFD2	NM_006636.2	1065	agcagagaagtcgaagctctaaa	166372	-	see also 14757 line
33622	MTDFD2	NM_006636.2	869	gtcaattgattgggaataaatag	166371	-	see also 14757 line
33623	MTDFD2	NM_006636.2	787	tacaattcttcagattatgtaa	166370	-	see also 14757 line
33624	MTHFS	NM_006441.1	520	cacctggcgttggcttctcaaaag	166380	-	see also 14758 line
33625	MTHFS	NM_006441.1	278	cacatgatatgtgagaataaga	166377	-	see also 14758 line
33626	PFKL	NM_002626.2	975	gcctagtgagctccatcgataac	166387	-	see also 14759 line
33627	PFKL	NM_002626.2	2113	gggctcgcacactgctgtataatg	166395	-	see also 14759 line
33628	PFKM	NM_000289.3	219	cacctgggagagcgtttcgatga	166405	-	see also 255 line
33629	PFKM	NM_000289.3	125	tggctggagttggtatcttccacc	166402	-	see also 255 line
33630	PFKP	NM_002627.2	1399	caggatcctgcgcattatgatg	166450	-	see also 1698 line
33631	PGM1	NM_002633.2	456	cgggatcgtgctgtgtgtatcg	166469	-	see also 14762 line
33632	PGM1	NM_002633.2	944	ctgcgaactcggcgagtaactgc	166485	-	see also 14762 line
33633	PKLR	NM_000298.3	1738	atcatcggggtgctaaagcatatc	166518	-	see also 14763 line
33634	PKLR	NM_000298.3	640	tgggtggactaccoccaatttgt	166507	-	see also 14763 line
33635	PKM2	NM_002654.3	565	tgtgtggctctagacactaaag	166519	-	kinase related
33636	PP	NM_021129.2	240	cacgtgtgtctatgcataaatg	166525	-	see also 14764 line
33637	PP	NM_021129.2	915	taccacagactgggtgaagtgg	166548	-	see also 14764 line
33638	PPA2	NM_006903.3	620	acctggaagctctcttaatttg	166567	-	see also 4841 line
33639	PPA2	NM_006903.3	775	aagtgaatggagagctataaa	166570	-	see also 4841 line
33640	PPAT	NM_002703.3	747	cagctactccctgtcttaattg	166597	-	see also 14766 line
33641	PPAT	NM_002703.3	805	tggaaatgctcccttatgcaatg	166602	-	see also 14766 line
33642	PPM1E	NM_014906.3	2136	tacgcccactactcaagaag	166652	-	see also 14767 line
33643	PPM1E	NM_014906.3	1755	atgggcgtgtggttattcaact	166640	-	see also 14767 line
33644	PPRS1	NM_002764.2	279	gtggcgaataatcaatgacaattta	166661	-	see also 14768 line

breast cancer(乳癌)、lung cancer(肺癌)。

939

図46 (続き)

33645	PRPS1	NM_002764.2	280	tggcgaatcaatgacaattaa	16662	-	see also 14768 line
33646	PRPS1L1	NM_175886.2	930	ttgtccaaataatcagtaattg	16669	-	see also 14769 line
33647	PRPS1L1	NM_175886.2	933	ctccaaataatcagtaattgaca	16671	-	see also 14769 line
33648	PRPS1L1	NM_175886.2	931	tgctccaaataatcagtaattga	16670	-	see also 14769 line
33649	PRPS2	NM_002765.2	361	tcccatagccgcgacagaataaa	16680	-	see also 1808 line
33650	PRPS2	NM_002765.2	362	cccatagccgcgacagaataaaa	16681	-	see also 1808 line
33651	PRPS2	NM_002765.2	360	ttcccatagccgcgacagaataa	16679	-	see also 1808 line
33652	PSPH	NM_004577.2	635	aaggatacgcgcaaatggtatat	166710	-	see also 14771 line
33653	PSPH	NM_004577.2	428	ttctacttaacggtgaatgco	166707	-	see also 14771 line
33654	SMPD2	NM_003080.1	742	tgggtctcaacgccttatgaco	166716	-	see also 14772 line
33655	SMPD2	NM_003080.1	1249	cagagagctgcggttgatgtg	166723	-	see also 14772 line
33656	BSN	NM_003458.1	3878	gocgtgtacgaagaatcctca	166756	-	see also 2345 line
33657	BSN	NM_003458.1	9796	tcctcgaaactacgtaattg	166789	-	see also 2345 line
33658	BSN	NM_003458.1	9795	ttctcgaaactacgtaattg	166788	-	see also 2345 line
33659	DLD	NM_000108.2	185	tacgacatcagcgcgattgac	166798	-	see also 14774 line
33660	DLD	NM_000108.2	1021	tggcgcgacgcctttactaaga	166836	-	see also 14774 line
33661	FLJ10511	NM_018120.3	786	tgggtcgaaatccgttcagattg	166866	-	see also 14775 line
33662	FLJ10511	NM_018120.3	274	cgcctctatcgttagtaaccagt	166845	-	see also 14775 line
33663	GSR	NM_000837.1	757	tacgcatgataaggtacttaga	166886	-	see also 423 line
33664	GSR	NM_000837.1	753	atgacacgcatgataaggtact	166885	-	see also 423 line
33665	KIAA0467	NM_015284.1	1886	gagtcctatcacgcctcaaatg	166934	-	see also 6313 line
33666	KIAA0467	NM_015284.1	2800	gcccacacgcttgattgagatg	166953	-	see also 6313 line
33667	MT3	NM_005954.1	130	tgcgaagtgcgagggatgcgaatg	166986	-	heavy metal
33668	PITPNM1	NM_004910.1	346	gggggcagcgcgcaatcacaca	166987	-	Alzheimer disease(アルツハイマー病)
33669	PKD1	NM_00296.2	3818	ggcgagatgctgcgcttctgagg	167003	-	see also 3412 line
33670	PKD1	NM_00296.2	4235	cccgagcgtgcacacacacattca	167005	-	see also 14779 line
33671	SOD1	NM_000454.3	412	cacactggtggtccatgaaaaag	167036	-	see also 14780 line
33672	SOD1	NM_000454.3	155	aaggtgtggggaagcaattaaagg	167032	-	see also 14780 line
33673	TXNRD1	NM_003330.2	1777	gacgattccgcaagagataaca	167072	-	see also 14781 line
33674	TXNRD1	NM_003330.2	1180	tggtttagacgtcactgttatgg	167054	-	see also 14781 line
33675	C5	NM_001735.2	2167	cagcgagctgcacggtatggtt	167149	-	see also 1149 line
33676	C5	NM_001735.2	4449	ttgttagcttcgcggatattg	167229	-	see also 1149 line
33677	CCL1	NM_002981.1	177	ctcatttgcggagcaagagattc	167254	-	signal_transduction
33678	CCL1	NM_002981.1	241	tgctccaatgaggccttaatt	167255	-	chemokine
33679	CCL1	NM_002981.1	243	ctccaatgaggccttaattca	167256	-	see also 33677 line
33680	CCL15	NM_004167.3	663	gtgttaactatgaaaaagtatt	167262	-	see also 14784 line
33681	CCL15	NM_004167.3	661	ccggttctactcatgaaaagta	167261	-	see also 14784 line
33682	CCL16	NM_004590.2	365	aactgtccacggttaaaattat	167270	-	see also 14785 line
33683	CCL16	NM_004590.2	368	ttgtccacggttaaaattat	167271	-	see also 14785 line
33684	CCL16	NM_004590.2	362	aggaaactgtccacggttaaaat	167269	-	see also 14785 line
33685	CCL17	NM_002987.2	301	tcacaggatgccatggttttgt	167274	-	signal_transduction
33686	CCL17	NM_002987.2	300	ctccaggatgccatggttttgg	167273	-	gpcr
33687	CCL18	NM_002988.2	143	agctctgctgcctgctatacc	167275	-	chemokine
						-	see also 33685 line
						-	see also 14786 line

図46 (続き)

33688	CCL2	NM_002982.2	205	tgacagagctcgcgagctataga	167278	-	see also 14788 line
33689	CCL2	NM_002982.2	211	ggctcgcgagctatagaagaatc	167281	-	see also 14788 line
33690	CCL20	NM_004591.1	164	tacacagaccgtattcttcaccc	167283	-	see also 14789 line
33691	CCL20	NM_004591.1	269	ttgtctgtgtcgcaaatccaaa	167284	-	see also 14789 line
33692	CCL22	NM_002990.3	152	ggcgcgtgtgaaacacattctact	167289	-	see also 14790 line
33693	CCL22	NM_002990.3	154	ggcgtgtgaaacacattctactgg	167290	-	see also 14790 line
33694	CCL23	NM_005064.3	317	ttcactctggagagttacttttg	167293	-	see also 14791 line
33695	CCL25	NM_005624.2	356	ctggaacacccaattatcatcgc	167306	-	see also 14793 line
33696	CCL25	NM_005624.2	335	atgctgtaagaaggtgagttct	167305	-	see also 14793 line
33697	CCL26	NM_006072.3	218	gggtgcgaagctatgaattcacc	167313	-	see also 14794 line
33698	CCL26	NM_006072.3	214	acctgggtgcgaagctatgaatt	167311	-	see also 14794 line
33699	CCL27	NM_006864.2	117	gacctacagcagcattctact	167317	-	see also 14794 line
33700	CCL28	NM_019846.3	408	cacgaacacacacggccataaac	167328	-	see also 14795 line
33701	CCL28	NM_019846.3	279	ccgcacacacacacattctgaagc	167326	-	see also 14795 line
33702	CCL28	NM_019846.3	147	cacggaggtttcacatcatatt	167320	-	see also 14795 line
33703	CCL5	NM_002985.2	244	accagcagctgtcttctgcaco	167336	-	see also 14796 line
33704	CCL5	NM_002985.2	199	gtgcccacacacagagattttc	167334	-	see also 14796 line
33705	CCL7	NM_006273.2	249	cccggaagctgtaattcttcag	167342	-	see also 14797 line
33706	CCL7	NM_006273.2	141	agccaagttggagtaattacttca	167339	-	see also 14797 line
33707	CCL8	NM_005623.2	564	aacgtgataataggaataatcc	167345	-	see also 14798 line
33708	CCL8	NM_005623.2	555	tgctctttacacgtgataatag	167344	-	see also 14798 line
33709	CX3C1	NM_002996.1	156	accacgggtgacgaatgaacac	167348	-	see also 14799 line
33710	CX3C1	NM_002996.1	252	ggcgcaaacgcgaatcatcttg	167352	-	see also 14799 line
33711	CXCL1	NM_001511.1	340	tccctgacccccacattgtaaga	167358	-	see also 14800 line
33712	CXCL10	NM_001565.1	239	cacgtgttgagatcattgtaca	167365	-	see also 14801 line
33713	CXCL10	NM_001565.1	157	acctgcacagcattagtaatca	167362	-	see also 14801 line
33714	CXCL11	NM_005409.3	332	agcaagcaagcgttataatcaaa	167371	-	see also 14802 line
33715	CXCL11	NM_005409.3	237	ctccataatgtaccacgaataca	167370	-	see also 14802 line
33716	CXCL12	NM_000609.3	176	cagatgcccatcccgattttctg	167372	-	see also 14803 line
33717	CXCL12	NM_000609.3	216	gccaacgtcaagcattcacaat	167373	-	see also 14803 line
33718	CXCL13	NM_006419.1	226	cgcttcattgacgtaattcaaat	167383	-	see also 14804 line
33719	CXCL13	NM_006419.1	217	atccctagacaccttcattgacg	167380	-	see also 14804 line
33720	CXCL14	NM_004887.3	554	cgcggtgtggagcgggtccaaatgc	167386	-	see also 3391 line
33721	CXCL14	NM_004887.3	779	agcgagaggtctacgaagaatag	167391	-	see also 3391 line
33722	CXCL5	NM_002994.2	239	tgcggtgctgtttgttacagacc	167392	-	see also 14806 line
33723	CXCL5	NM_002994.2	266	aaggaggttcatcccaaatgac	167394	-	see also 14806 line
33724	CXCL6	NM_002993.1	218	tacgoggttacgtgagagtaaac	167396	-	see also 14807 line
33725	CXCL6	NM_002993.1	240	ccccaaaaagattgtaaaactgc	167399	-	see also 14807 line
33726	CXCL9	NM_002416.1	386	ctcaacgttctgtcaaaagaag	167410	-	see also 14808 line
33727	CXCL9	NM_002416.1	202	agccctctctgcgagaaaatga	167404	-	see also 14808 line
33728	CXCL9	NM_002416.1	160	atccacacataactttgaaga	167401	-	see also 14808 line
33729	IL13	NM_002188.2	433	ttcgcgagggagcagttcaactga	167414	-	signal transduction
33730	IL13	NM_002188.2	226	acctgacagctggcatgtactgt	167412	-	see also 33729 line
33731	IL13	NM_002188.2	361	tgcatgtccgagacacccaatac	167413	-	see also 33729 line

Peutz-Jeghers syndrome(ポイツ・イエガー症候)

図46 (続き)

941

33732	IL8	NM_000584.2	176	gccaaaggagtgctaaagaactta	167415	-	see also 14809 line
33733	IL8	NM_000584.2	193	aacttagatgtcagtgctaaag	167417	-	see also 14809 line
33734	PPBP	NM_002704.1	330	ttgcaacaagaatgaagtgatag	167426	-	see also 14810 line
33735	PPBP	NM_002704.1	331	tgcacaacaagtcgaagtgtatgc	167427	-	see also 14810 line
33736	IFNB1	NM_002176.1	223	gagcgcgcatggaccatctatga	167431	-	see also 14811 line
33737	IFNB1	NM_002176.1	225	cgcccgcatggaccatctatgaga	167432	-	see also 14811 line
33738	IFNW1	NM_002177.1	604	ccttagtgatgaccagctatagc	167442	-	see also 14812 line
33739	IFNW1	NM_002177.1	655	ctcagaacatggcctacttagc	167443	-	see also 14812 line
33740	LIF	NM_002309.2	577	cacctgggtgaagtgattcttc	167449	-	see also 14813 line
33741	LIF	NM_002309.2	238	tgcacatggcctcttattctct	167446	-	see also 14813 line
33742	LIF	NM_002309.2	248	ctctttattctattacacagc	167448	-	see also 14813 line
33743	OSM	NM_020530.3	216	tcttgaccctctatactatc	167451	-	see also 14814 line
33744	OSM	NM_020530.3	243	gcctggatgttctaaactgaga	167453	-	see also 14814 line
33745	CTF1	NM_001330.2	136	tgcgcaactctccacaaatag	167456	-	see also 14815 line
33746	IL12A	NM_000882.2	928	ttcggcagtgactatgataga	167473	-	see also 14816 line
33747	IL12A	NM_000882.2	678	gcctgtgccttagtgatttta	167465	-	see also 14816 line
33748	IL12B	NM_002187.2	977	accgtactatagctatcttgg	167491	-	see also 14817 line
33749	IL12B	NM_002187.2	968	gggcccaggaccgctactatagc	167490	-	see also 14817 line
33750	IL5	NM_000879.2	423	aacacccgagtgataatagaag	167498	-	see also 14818 line
33751	IL5	NM_000879.2	426	accgagtgataatagaagttg	167499	-	see also 14818 line
33752	CSF2	NM_000758.2	346	gccctccaaacccggaaacttc	167502	-	see also 14819 line
33753	CSF2	NM_000758.2	375	accagattacccttgaag	167504	-	see also 14819 line
33754	CSF2	NM_000758.2	365	ttcctgtcaacccagattatca	167503	-	see also 14819 line
33755	EPO	NM_000799.1	384	tccagacacacaaagttaattc	167507	-	see also 14820 line
33756	EPO	NM_000799.1	430	cgggcagcagccgtagaagtct	167508	-	see also 14820 line
33757	IL10	NM_000572.2	429	cggcgtgtatcgtattcttc	167516	-	see also 14822 line
33758	IL10	NM_000572.2	428	acggcgtgtcgtcgtattcttc	167515	-	see also 14822 line
33759	IL9	NM_000590.1	362	ggcaggcaacgcgtgcatttc	167521	-	see also 14823 line
33760	IL9	NM_000590.1	245	taccacatgcaacagataacc	167519	-	see also 14823 line
33761	IL7	NM_000880.2	805	aagacatatctgtgtgcttaata	167529	-	see also 573 line
33762	IL7	NM_000880.2	993	aagcccaacaaagaggttg	167536	-	see also 573 line
33763	IL6	NM_000600.1	637	atctcattctgcgcagcttaag	167543	-	see also 14825 line
33764	IL6	NM_000600.1	268	aggagacatgtaacagagtaac	167540	-	see also 14825 line
33765	IL4	NM_000589.2	756	accagagtacgttgaaacttc	167549	-	see also 14826 line
33766	IL4	NM_000589.2	415	agcatgtgcggcaacttggcc	167544	-	see also 14826 line
33767	IL3	NM_000588.3	380	cgcacccacggacatccaatcc	167555	-	see also 14827 line
33768	IL3	NM_000588.3	388	cgcacatccaatccatatacag	167558	-	see also 14827 line
33769	IL2	NM_000586.2	613	agcaatacaacgtaatagtct	167576	-	see also 14828 line
33770	IL2	NM_000586.2	644	aggatctgaacaacattcatg	167577	-	see also 14828 line
33771	IFNG	NM_000619.1	448	gacttgaaaagctgaactaata	167586	-	see also 14829 line
33772	IFNG	NM_000619.1	533	aactgtgccagcagctaaaca	167587	-	see also 14829 line
33773	IL17E	NM_002789.2	571	ctccocctggagatatgagttgg	167590	-	-
33774	IFNA5	NM_002169.1	40	ctcaactgcgaagcaatctgtc	167591	-	-
33775	IFNA8	NM_002170.1	69	tgcctcagctacaagctcattcagc	167593	-	see also 14831 line

図46 (続き)

942

33776	IFNA8	NM_002170.1	550	atctctcttttatacaact	167596	-	see also 14831 line
33777	IFNA8	NM_020124.1	103	ccctgactgttaacttackgaac	167600	-	see also 14832 line
33778	IFNA8	NM_020124.1	29	cacaaacctgatatgattcaaa	167597	-	see also 14832 line
33779	IFNT1	NM_176891.2	524	gcgatgtctgtttttgttgc	167613	-	see also 14833 line
33780	IFNT1	NM_176891.2	411	ggtagtgataaaccttagattac	167609	-	see also 14833 line
33781	IL15	NM_000585.2	675	gtccggagatgcgaagtattcatg	167624	-	see also 14834 line
33782	IL15	NM_000585.2	585	tactttatatacggaaagtgatg	167622	-	see also 14834 line
33783	ED1	NM_001399.3	696	aggcgtgttcgccgaataaaag	167629	-	see also 972 line
33784	LTA	NM_000595.2	416	ctcttgagcaaatctctcc	167644	-	see also 14836 line
33785	LTA	NM_000595.2	720	agccctagtactgttttttgg	167646	-	see also 14836 line
33786	LTB	NM_002341.1	388	tcccgagcagcgccctctattac	167647	-	signal transduction
33787	LTB	NM_002341.1	389	cccgagcagcgccctctattacc	167648	-	see also 33786 line
33788	TNF	NM_000594.2	358	cccgagcagcctctctaatca	167650	-	see also 14837 line
33789	TNF	NM_000594.2	787	ccgaactcagcgtgagatcaatc	167657	-	see also 14837 line
33790	TNFSF10	NM_003810.2	343	aactcgtcagcgtgtagaaag	167666	-	see also 14838 line
33791	TNFSF10	NM_003810.2	743	tcttgacctatattgttgatga	167681	-	see also 14838 line
33792	TNFSF10	NM_003810.2	742	atcttgacctatattgttgatg	167680	-	see also 14838 line
33793	TNFSF11	NM_003701.2	1056	tccggtatcaggtatgcaacatact	167696	-	see also 2526 line
33794	TNFSF11	NM_003701.2	844	gacctagctacagagatcttctca	167691	-	see also 2526 line
33795	TNFSF13	NM_003808.2	1434	ggcaagggcgaaacttaacctct	167705	-	see also 14840 line
33796	TNFSF13	NM_003808.2	1378	agcgaggtgtcttccatttaca	167703	-	see also 14840 line
33797	TNFSF13B	NM_006573.3	883	tacgcctagggacatcaattca	167713	-	see also 14841 line
33798	TNFSF13B	NM_006573.3	880	aactcagccatggacatctaat	167712	-	see also 14841 line
33799	TNFSF13B	NM_006573.3	290	agcagtcacgcttactcttctgc	167707	-	see also 14841 line
33800	TNFSF15	NM_005118.2	813	atcttctgttggtatcacaaa	167720	-	see also 14842 line
33801	TNFSF15	NM_005118.2	497	cacaaagaacgaatgaactata	167717	-	see also 14842 line
33802	TNFSF4	NM_003326.2	654	tggcgaggaactgattcttctcc	167732	-	see also 14843 line
33803	TNFSF4	NM_003326.2	323	atctcgaattcaaatgatcaaa	167723	-	see also 14843 line
33804	TNFSF5	NM_000074.1	632	cgggtagatcgagagaattctta	167746	-	see also 14844 line
33805	TNFSF5	NM_000074.1	687	acottcgaggcaaatccattcc	167748	-	see also 14844 line
33806	TNFSF6	NM_000639.1	974	cagaagtttttgggtttataaa	167767	-	see also 14845 line
33807	TNFSF6	NM_000639.1	976	gacgttttctgggtttataaagc	167768	-	see also 14845 line
33808	TNFSF8	NM_001244.2	343	caggtgtccactattatgtgt	167772	-	see also 14846 line
33809	TNFSF8	NM_001244.2	286	cagcgagccgcagctattctctt	167770	-	see also 14846 line
33810	TNFSF9	NM_003811.2	422	ggctgagagctactatgtctctt	167793	-	see also 14847 line
33811	TNFSF9	NM_003811.2	291	cagctgggtggcccaaaagtctt	167790	-	see also 14847 line
33812	IL1F5	NM_012275.2	590	tgcgcccatcacagcttctact	167800	-	-
33813	IL1F5	NM_012275.2	200	ctcgccattgaaggcttcttct	167797	-	see also 33812 line
33814	IL1F5	NM_012275.2	253	tgcagcagggaaaggtcattaaa	167798	-	see also 33812 line
33815	IL1RN	NM_000577.3	564	agggctcatgtgtaccaaattct	167808	-	see also 14848 line
33816	IL1RN	NM_000577.3	220	ctgagggaacaaccactagtcttc	167803	-	see also 14848 line
33817	IL18	NM_001562.2	679	tctcatatcagaaggaattcttc	167828	-	see also 14849 line
33818	IL18	NM_001562.2	450	atgcaccccgagaccattattt	167821	-	see also 14849 line
33819	IL1A	NM_000575.3	1640	ctcaagggaactaagaactatttc	167859	-	see also 14850 line

図46 (続き)

943

33820	IL1A	NM_000575.3	1638	aactcaggcactaagaactatt	167858	-	see also 14850 line
33821	IL1B	NM_000576.2	162	agctgatggcctcaacagatga	167866	-	see also 14851 line
33822	IL1B	NM_000576.2	463	ctcggagactacacacaaaaag	167869	-	see also 14851 line
33823	IL1B	NM_000576.2	495	gtctgtccatagaactgaag	167870	-	see also 14851 line
33824	IL1F10	NM_032556.4	843	caagccgtaccgaagttaactt	167884	-	see also 9244 line
33825	IL1F10	NM_032556.4	841	ctcagccgtacacagatttact	167883	-	see also 9244 line
33826	IL1F10	NM_032556.4	844	agcccgtaacagatttacttg	167885	-	see also 9244 line
33827	IL1F6	NM_014440.1	124	gtcactattgccttaactcatg	167891	-	see also 14853 line
33828	IL1F6	NM_014440.1	120	tccagtcactatgccttaact	167889	-	see also 14853 line
33829	IL1F7	NM_014439.3	398	gtctctactgtacaaagataaa	167897	-	see also 14854 line
33830	IL1F7	NM_014439.3	379	gtctctaaagggaggtttgtct	167896	-	see also 14854 line
33831	IL1F7	NM_014439.3	576	caactctgtcaattgtaagc	167902	-	see also 14855 line
33832	IL1F8	NM_014438.3	199	ctctcttagccgaagcattaag	167913	-	see also 14855 line
33833	IL1F8	NM_014438.3	129	cccaactctatgctatttgga	167911	-	see also 14855 line
33834	IL1F8	NM_014438.3	135	tctatgtatctgtgattctcg	167912	-	see also 14855 line
33835	IL1F9	NM_019618.2	101	gaggaaaggccgtctataatca	167925	-	see also 14856 line
33836	IL1F9	NM_019618.2	110	cgtctatcaatcaatgtataa	167929	-	see also 14856 line
33837	INHBC	NM_005538.2	452	atcaaccagactcgtctgattt	167940	-	see also 14857 line
33838	INHBC	NM_005538.2	865	gtcgtctgacaaagagtttttg	167948	-	see also 14857 line
33839	TGFB1	NM_000660.1	1417	ctcgacagagtggtattctttg	167962	-	see also 14858 line
33840	TGFB1	NM_000660.1	1186	aaccacacagaaatctatgaca	167958	-	see also 14858 line
33841	TGFB1	NM_000660.1	1728	tgcgcagctgtacattgacttc	167967	-	see also 14858 line
33842	TGFB2	NM_003238.1	1133	tgcctactgcactttacattga	167994	-	see also 14859 line
33843	TGFB2	NM_003238.1	457	gaggagcagcgaagactactacg	167972	-	see also 14859 line
33844	TGFB3	NM_003239.1	803	cgtctatcgtggcagaagaatct	168013	-	see also 14860 line
33845	TGFB3	NM_003239.1	642	aggttttcgcttcactgtcttc	168012	-	see also 14860 line
33846	TGFB3	NM_003239.1	842	gcgcagtgctgtctctttgatt	168014	-	see also 14860 line
33847	BTC	NM_001729.1	728	tgcgaaacgctgtataaagaag	168027	-	cell cycle
33848	BTC	NM_001729.1	725	ctctcggaaacgctgtataaaga	168026	-	growth factor
33849	BTC	NM_001729.1	734	aacgtcgtataaagaagaagaaa	168029	-	see also 33847 line
33850	DTR	NM_001945.1	707	cagtggaataatcgcttatatac	168032	-	see also 14861 line
33851	DTR	NM_001945.1	705	ccagtggaataatcgcttatata	168031	-	see also 14861 line
33852	EREG	NM_001432.1	563	gtcgtcgtgtccacataatttt	168052	-	see also 14862 line
33853	EREG	NM_001432.1	523	gactttgacgcgtgattctatta	168049	-	see also 14862 line
33854	EREG	NM_001432.1	420	tggacatgagcctcaaaactactgc	168043	-	see also 14862 line
33855	EOGF1	NM_001953.2	709	tccgtgcgacggaactctatg	168058	-	see also 14863 line
33856	EOGF1	NM_001953.2	708	tccgtgcgacggaactctatg	168057	-	see also 14863 line
33857	FIGF	NM_004469.2	770	tagtttggcgaactttctatg	168072	-	see also 14864 line
33858	FIGF	NM_004469.2	775	ttagcggaactttctatgacatt	168074	-	see also 14864 line
33859	PDGFB	NM_002608.1	1130	ctcgatccgctcttctgacatc	168098	-	see also 14865 line
33860	PDGFB	NM_002608.1	1128	cactogacccgctctcttga	168097	-	see also 14865 line
33861	PDGFB	NM_002608.1	1097	tccgagagcctttagagatgc	168096	-	see also 14865 line
33862	VEGF	NM_003376.3	1632	gagcgagcttgattaaacgaac	168113	-	see also 2277 line
33863	VEGF	NM_003376.3	1500	ggcgaagaatcccggtataagt	168109	-	see also 2277 line

図46 (続き)

33864	VEGFB	NM_003377.3	401	cagtgtaatgcagactataaaa	168115	-	see also 14866 line
33865	MUC4	NM_004532.2	1513	aggagacgacggacttacgattc	168130	-	see also 14867 line
33866	MUC4	NM_004532.2	2585	ggcgaacgccaccctcaatcagt	168139	-	see also 14867 line
33867	KITLG	NM_000899.1	268	tgcaggaaatgtgtgactataa	168197	-	see also 584 line
33868	KITLG	NM_000899.1	267	ctgcaggaaatgtgtgactataa	168196	-	see also 584 line
33869	CSF1	NM_000757.3	586	gcctgcgtccgaactttctaga	168235	-	see also 14869 line
33870	CSF1	NM_000757.3	585	ggcctgcgtccgaactttctatg	168234	-	see also 14869 line
33871	IL22	NM_020525.3	312	gagtgagcgcgtctctatctgata	168251	-	see also 14870 line
33872	IL22	NM_020525.3	436	aacaggctaagcacatgtcatat	168254	-	see also 14870 line
33873	DKFZp451J0118	NM_175852.3	1024	aggagcatatcgcacaaagtcttc	168263	-	see also 14871 line
33874	DKFZp451J0118	NM_175852.3	94	ctgcacaaacatccaatccaaaa	168259	-	see also 14871 line
33875	AREG	NM_001657.2	438	ctcgggagccgactatgactact	168272	-	see also 14872 line
33876	AREG	NM_001657.2	435	gtcctcgggagccgactatgact	168271	-	see also 14872 line
33877	BMP10	NM_014482.1	616	aggatcgtatgatatacagatgg	168293	-	see also 14874 line
33878	BMP10	NM_014482.1	296	aagacgggtgcgaactttaacaca	168293	-	see also 14874 line
33879	BMP15	NM_005448.1	980	tactacgcgatgtgtctcaattcc	168329	-	see also 14875 line
33880	BMP15	NM_005448.1	1074	cccgataagtatgttccaatta	168336	-	see also 14875 line
33881	BMP2	NM_001200.1	1276	cggggtatcagccgcttttaactgc	168356	-	see also 780 line
33882	BMP2	NM_001200.1	1183	aacagcgggaagcccttaagtcc	168354	-	see also 780 line
33883	BMP3	NM_001201.1	1027	cagagccttatcttctgtat	168378	-	see also 14877 line
33884	BMP3	NM_001201.1	1356	agccagacgctccaatttgatga	168384	-	see also 14877 line
33885	BMP4	NM_001202.2	1100	atgtgacacagtgaggaaactttt	168408	-	see also 782 line
33886	BMP4	NM_001202.2	1345	gccagcgtagccctaagcatca	168411	-	see also 782 line
33887	BMP5	NM_021073.2	1543	tggagcggatatacaacgtaaat	168437	-	see also 14878 line
33888	BMP5	NM_021073.2	767	tgggttctagtgggttatgcaaa	168415	-	see also 14878 line
33889	BMP6	NM_001718.2	1317	cgcgcacaacagagtcgtatcg	168457	-	see also 14879 line
33890	BMP6	NM_001718.2	1610	ctgtgcgccaactaagctaaatg	168463	-	see also 14879 line
33891	BMP7	NM_001719.1	287	gcgcgagatcctctccattttgg	168465	-	see also 14880 line
33892	BMP7	NM_001719.1	667	gggaacgcttcgacaaatgagacg	168469	-	see also 14880 line
33893	CKLF	NM_016326.2	300	cagcggctcttaccagaaaaagc	168473	-	-
33894	CKLF	NM_016326.2	154	aacgtgacagcgaataataaaca	168472	-	see also 33893 line
33895	GLC	NM_013246.1	152	ctggccctccatccagaaacc	168490	-	see also 5365 line
33896	CXCL16	NM_022059.1	669	agcttacatcgtgtctctact	168493	-	see also 14881 line
33897	CXCL16	NM_022059.1	624	cccgccatcgtgtcagttcaga	168491	-	see also 14881 line
33898	CXCL16	NM_022059.1	674	accatcgtgtgtctactacacg	168494	-	see also 14881 line
33899	EBAF	NM_003240.2	246	cacgtgagggcccgatgtagt	168503	-	transforming growth factor-beta receptor ligand
33900	FAM3B	NM_058186.2	147	aggacgtttgtgttaagttaa	168507	-	signal transduction
33901	FAM3B	NM_058186.2	143	ttcaaggacgtttgtgttaag	168505	-	see also 14882 line
33902	FAM3C	NM_014888.1	302	cacagctcagctgtctacaagc	168520	-	see also 14882 line
33903	FAM3C	NM_014888.1	615	tacgatgatgagcacaacaaact	168527	-	see also 14883 line

945

図46 (続き)

33904	FAM3C	NM_014888.1	675	agcacatctattactaattctgg	168529	-	see also 14883 line
33905	FAM3D	NM_138805.2	793	ggagattctctacgcaaacact	168547	-	see also 14884 line
33906	FAM3D	NM_138805.2	792	ggagattctctacgcaaacact	168546	-	see also 14884 line
33907	FL13LG	NM_001459.2	519	ctggatcacttcgacgaacttct	168553	-	see also 14885 line
33908	FL13LG	NM_001459.2	391	gtgaacacggagatatactttgt	168552	-	see also 14885 line
33909	GDF10	NM_004962.2	888	agcgtcaggtgctatgcaagc	168556	-	see also 14886 line
33910	GDF10	NM_004962.2	1639	atctcacgcaatcttttgatgc	168559	-	see also 14886 line
33911	GDF11	NM_005811.2	452	caccgagaccgctattagcatgg	168563	-	see also 14887 line
33912	GDF11	NM_005811.2	1061	ctcggccagctgagctacatgt	168568	-	see also 14887 line
33913	GDF2	NM_016204.1	469	tacgacagctgccaacatgtgc	168574	-	see also 6723 line
33914	GDF2	NM_016204.1	664	aggagcgtggtcattatgatg	168576	-	see also 6723 line
33915	GDF3	NM_020634.1	236	cocgagacttatgctacgttaag	168588	-	see also 14889 line
33916	GDF3	NM_020634.1	513	cacccttaagccaggttaaatgt	168591	-	see also 14889 line
33917	GDF3	NM_020634.1	1078	gtcattctagacattatgaaga	168601	-	see also 14889 line
33918	GDF8	NM_005259.1	468	acgtacaacgggaacaacatt	168615	-	see also 3700 line
33919	GDF9	NM_005260.2	1240	gtccaagaccgtcatgtgtacc	168669	-	see also 14891 line
33920	GDF9	NM_005260.2	444	taccgttgaaacttactcaagt	168643	-	see also 14891 line
33921	GPI	NM_000175.2	1567	agccttgctgccaatgtatgagc	168694	-	see also 14892 line
33922	GPI	NM_000175.2	834	ttgccctgtctctaacacaacc	168682	-	see also 14892 line
33923	IK	NM_006083.2	1697	atcgccagctgggaagaagttagt	168697	-	- cytokine
33924	IL16	NM_004513.3	1128	ggcgaagctacttgacgaagaaga	168704	-	see also 14893 line
33925	IL16	NM_004513.3	575	ttcccaagctgaaggttg	168701	-	see also 14893 line
33926	IL17	NM_002190.2	196	atccataaccggataccaatac	168755	-	see also 14894 line
33927	IL17	NM_002190.2	197	tcataaccggataccaatacc	168756	-	see also 14894 line
33928	IL17	NM_002190.2	202	aaccggaataccaataccaatcc	168757	-	see also 14894 line
33929	IL17F	NM_052872.2	156	aggtatgatgaagcttgacattg	168767	-	see also 14896 line
33930	IL17F	NM_052872.2	97	atcccaagtaggacatacttt	168763	-	see also 14896 line
33931	IL19	NM_013371.2	1138	cagatcattagcccttagatgt	168775	-	see also 14897 line
33932	IL19	NM_013371.2	1032	caagacatgcccacatatagaag	168774	-	see also 14897 line
33933	IL20	NM_018724.2	309	ctctatcgacaggatttaa	168790	-	see also 14898 line
33934	IL20	NM_018724.2	376	gcctgcgaattcttcttacc	168793	-	see also 14898 line
33935	IL21	NM_021803.1	418	atgtattttttatgagaaaaaac	168805	-	see also 14899 line
33936	IL21	NM_021803.1	235	tcagaagatgtagagacaact	168803	-	see also 14899 line
33937	IL24	NM_006850.2	792	tcggagagcattcaaacagtgg	168810	-	apoptosis
33938	IL24	NM_006850.2	641	aactaccacatagacacagtga	168807	-	see also 33937 line
33939	IL24	NM_006850.2	725	ctgcaaccacagtcgaagaaatga	168809	-	see also 33937 line
33940	IL26	NM_018402.1	211	acgcataaaaaatatatcgatta	168818	-	see also 14900 line
33941	IL26	NM_018402.1	210	gaccataaaaaatatatcgatt	168817	-	see also 14900 line
33942	MDK	NM_002391.2	264	ttggagccgactgaagtacaag	168824	-	see also 14901 line
33943	MDK	NM_002391.2	79	ctccgctgctgccaagaaagaaag	168822	-	see also 14901 line
33944	MIF	NM_002415.1	369	gcccagacaggtctacatcaac	168828	-	see also 14902 line
33945	MIF	NM_002415.1	372	cggacaggtctacatcaactat	168829	-	see also 14902 line
33946	NODAL	NM_018055.3	995	tcctagatcaccataaagacatg	168847	-	see also 14903 line
33947	NODAL	NM_018055.3	564	tgcacccaatgtgctcttattgc	168836	-	see also 14903 line

melanoma(メラノーマ)

图46 (续九)

図46 (続き)

946

33948	PBEF	NM_005746.1	76	tcctacaaggtactactactataa	168948	-	signal transduction	-
33949	PGLYRP	NM_005091.1	521	agccctgaggtccaaactatgtgc	168950	-	see also 14904 line	
33950	PLAB	NM_004864.1	918	atgactgttagccaaagactgc	168953	-	see also 14905 line	
33951	PLAB	NM_004864.1	901	atgctccagactatgatgact	168952	-	see also 14905 line	
33952	PTN	NM_002825.4	373	cagcagagctcgaaatttgcagc	168954	-	see also 14906 line	
33953	PTN	NM_002825.4	570	agctgagtgcaagcaaacccatga	168958	-	see also 14906 line	
33954	PTN	NM_002825.4	794	aacctcaagcagaactcaagaag	168960	-	see also 14906 line	
33955	SCGB1A1	NM_003357.3	297	agcccaagagctactgtgtaatt	168964	-	see also 14907 line	
33956	SCGB1A1	NM_003357.3	261	gcccagagaagcactcaattaagc	168962	-	see also 14907 line	
33957	SCGB1A1	NM_003357.3	274	atcattaaagctcatggaaaaaat	168963	-	see also 14907 line	
33958	SPP1	NM_000582.2	752	acctgaacgcgccttctgattgg	168981	-	see also 14908 line	
33959	SPP1	NM_000582.2	433	gactgaacgactctgatgatgt	168972	-	see also 14908 line	
33960	SPP1	NM_000582.2	890	agcattccgatgtgattgatgt	168986	-	see also 14908 line	
33961	THPO	NM_000460.2	964	tacacgaactcttgaatggaact	168996	-	see also 14909 line	
33962	THPO	NM_000460.2	1108	atcctcactactggacagatcacg	168997	-	see also 14909 line	
33963	TNFRSF11							
33963	B	NM_002546.2	476	caccagtgacgagtgctctact	168905	-	see also 14910 line	
33964	B	NM_002546.2	578	agggcgctactcttgagatagagt	168906	-	see also 14910 line	
33965	TNFSF18	NM_005092.2	98	gtgctcttttgcctcaatagtta	168925	-	see also 14911 line	
33966	TNFSF18	NM_005092.2	448	atgttgaggacaccatagacttg	168940	-	see also 14911 line	
33967	AMH	NM_000479.2	1626	cgccgagcgctcgactcatcc	168948	-	transcription co-activator	persistent Mullerian duct syndrome(持続性ミュラー管症候群)
33968	BDNF	NM_001709.3	455	gaactaattggctgacactctcg	168955	-	see also 1134 line	
33969	CECR1	NM_017424.2	1272	ttcttcacgcgcggagaacacaga	168998	-	see also 14913 line	
33970	CECR1	NM_017424.2	1384	accccgagctcaggaacttactcc	168999	-	see also 14913 line	
33971	DKK1	NM_012242.1	222	gagtagcgccacacttgaactcg	169006	-	see also 5219 line	
33972	DKK1	NM_012242.1	868	gtcttcgggatacagaagaatc	169011	-	see also 5219 line	
33973	FGF1	NM_000800.2	541	cgcggtctcgcgactcactatgg	169026	-	see also 14916 line	
33974	FGF1	NM_000800.2	172	gcccctgacgcagagaagttaact	169015	-	see also 14916 line	
33975	FGF10	NM_004465.1	227	atgtcgcgtggagaaagacttc	169029	-	see also 3024 line	
33976	FGF10	NM_004465.1	509	agcataatggagagcaaatgat	169031	-	see also 3024 line	
33977	FGF11	NM_004112.2	651	tacagttcgcgcatttccacagc	169032	-	see also 14917 line	
33978	FGF11	NM_004112.2	671	agctgagttgctgotttaaggagt	169034	-	see also 14917 line	
33979	FGF11	NM_004112.2	668	cacagctgagtgctgctttaagg	169033	-	see also 14917 line	
33980	FGF12	NM_004113.3	631	cacattttgaccgaacactatt	169044	-	see also 14918 line	
33981	FGF12	NM_004113.3	529	cactgtaccgccagcaagaatca	169043	-	see also 14918 line	
33982	FGF12	NM_004113.3	348	gactacactctcttcaat:aat	169039	-	see also 14918 line	
33983	FGF13	NM_004114.2	984	ctgcgagtggtgctctatcaagg	169058	-	see also 2777 line	
33984	FGF13	NM_004114.2	906	ctgcagggcggttggaaccattga	169056	-	see also 2777 line	
33985	FGF14	NM_004115.2	682	agcacaaagtgcgtctgcaataat	169082	-	see also 2780 line	
33986	FGF14	NM_004115.2	207	gggtagtagtaaccaggttatatt	169069	-	see also 2780 line	
33987	FGF17	NM_003867.1	518	agcgcaggcccaacttcatcaag	169094	-	see also 2624 line	
33988	FGF18	NM_003862.1	956	ccctgagtgcgctaagtaactcc	169097	-	see also 14921 line	

33989	FGF18	NM_003882.1	766	ggcggagatggggacaagtatgc	169096	-	see also 14921 line
33990	FGF2	NM_002006.2	780	aacgattggaatcataactac	169105	-	see also 1285 line
33991	FGF2	NM_002006.2	751	atgttgtagcagatgagttttct	169101	-	see also 1285 line
33992	FGF20	NM_019851.1	446	gtggactgtcagttatagagg	169113	-	see also 14924 line
33993	FGF20	NM_019851.1	727	aagagttccagaattatcaagg	169122	-	see also 14924 line
33994	FGF21	NM_019113.1	261	gcccggaggtattcaattctgg	169126	-	see also 14925 line
33995	FGF21	NM_019113.1	253	gccttgaagccggaggtattca	169124	-	see also 14925 line
33996	FGF23	NM_020638.2	631	acgagatccccctaatcacttc	169134	-	see also 14927 line
33997	FGF23	NM_020638.2	419	aagatacctctgcattgatttca	169131	-	see also 14927 line
33998	FGF3	NM_005247.2	858	gagctgggctataatcagtatgc	169139	-	see also 14928 line
33999	FGF3	NM_005247.2	696	ggaacacagcgcctacagtattt	169137	-	see also 14928 line
34000	FGF4	NM_002007.1	820	gcctactcagtgctactcaagtacc	169141	-	see also 14929 line
34001	FGF5	NM_004464.2	480	atcccacgaagccaatagttaa	169146	-	see also 3021 line
34002	FGF5	NM_004464.2	481	tcccacgaagccaatagttaa	169147	-	see also 3021 line
34003	FGF6	NM_020996.1	551	tgcctactcagtgctacttacc	169166	-	see also 14931 line
34004	FGF6	NM_020996.1	451	ccctctcgttgccatgaacagt	169163	-	see also 14931 line
34005	FGF7	NM_002009.2	671	tacctgaggtatcgtataaagg	169179	-	see also 14932 line
34006	FGF7	NM_002009.2	593	gagcgacacacagaagtatga	169175	-	see also 14932 line
34007	FGF8	NM_006119.2	676	agcgtgaggtccactcatgaag	169184	-	see also 14933 line
34008	FGF8	NM_006119.2	737	gcgtctcaggttctctaaactacc	169186	-	see also 14933 line
34009	FGF9	NM_002010.1	262	cagccgggtttgttaagtgacc	169195	-	see also 1288 line
34010	FGF9	NM_002010.1	255	cagtggaagcccggttttggta	169191	-	see also 1288 line
34011	GDNF	NM_000514.2	657	gagacaacgtacacacaaatatt	169220	-	see also 398 line
34012	GDNF	NM_000514.2	543	aaccggggttgtcttaactgc	169215	-	see also 398 line
34013	GDNF	NM_000514.2	659	gacaacgtactacacaaatattga	169221	-	see also 398 line
34014	GRP	NM_002091.3	191	gaccgtgctgaccagaagtacc	169228	-	see also 14936 line
34015	GRP	NM_002091.3	342	aggaatttgcctgggtctcataga	169230	-	see also 14936 line
34016	HDGF	NM_004494.1	799	ctggaggactctctaaactacc	169235	-	see also 3044 line
34017	IGF1	NM_000618.2	186	ttccaaccaattatttaagtc	169238	-	see also 14937 line
34018	IGF1	NM_000618.2	247	gtcctctcgtcgtctctctacc	169239	-	see also 14937 line
34019	IGF1	NM_000618.2	179	agcagctctccaaaccaattatt	169236	-	see also 14937 line
34020	INHBE	NM_031479.3	962	atgttgacagcgagaccattacg	169250	-	see also 14938 line
34021	INHBE	NM_031479.3	717	aacctgggctggcataocttaac	169243	-	see also 14938 line
34022	LOC14595	NM_138573.1	389	tggcgtctactagtaaacacttctc	169262	-	see also 14939 line
34023	LOC14595	NM_138573.1	285	ttgtaggtgcgttgaataactata	169257	-	see also 14939 line
34024	MIA	NM_006533.1	330	agcgttcaaggagagattactatgg	169270	-	see also 14940 line
34025	MIA	NM_006533.1	269	gggcaaggtgtgtatgtctct	169268	-	see also 14940 line
34026	NDP	NM_000266.1	530	ggcaacactgttggattctatc	169275	-	see also 14941 line
34027	NDP	NM_000266.1	419	atgtactagctgcatcttttct	169272	-	see also 14941 line
34028	NGFB	NM_002506.1	828	ggcgtttatccgagatagatagc	169286	-	see also 14942 line
34029	NGFB	NM_002506.1	360	cggggcagaccgcccaacttact	169277	-	see also 14942 line
34030	NRG1	NM_013902.1	867	cagcaggtacatcttcttoatgg	169337	-	see also 14943 line
34031	NRG2	NM_004883.1	865	ctcgatatacaccggcaaaatct	169345	-	see also 14944 line
34032	NRG2	NM_004883.1	1289	atggaggcgctcgtctactatc	169351	-	see also 14944 line

図46 (続き)

948

34033	NTF3	NM_002527.2	525	aacgtaacgcggagcataaagat	169375	-	see also 1629 line
34034	NTF3	NM_002527.2	825	ggcggtagatagacacacg	169386	-	see also 1629 line
34035	NTF5	NM_006179.3	710	ggcggtagatagacacacg	169393	-	see also 14946 line
34036	NTF5	NM_006179.3	706	ggcggtagatagacacacg	169391	-	see also 14946 line
34037	NTF5	NM_006179.3	555	aacccgctcaaggctcgaacg	169389	-	see also 14946 line
34038	NUDT6	NM_007083.3	514	tacaaagatcgaataaattgaaa	169399	-	see also 4946 line
34039	NUDT6	NM_007083.3	379	accacgaatcggtatcaca	169394	-	see also 4946 line
34040	NUDT6	NM_007083.3	381	cacgagaatcggtatcaca	169395	-	see also 4946 line
34041	OGN	NM_014057.2	508	atcttacgcagattcaacaaa	169418	-	see also 5474 line
34042	OGN	NM_014057.2	1015	taccgataggatcattttaa	169434	-	see also 5474 line
34043	PDGFC	NM_016205.1	1116	cagttggactagaagatata	169449	-	see also 14948 line
34044	PDGFC	NM_016205.1	744	tggatacaactacgtttgatga	169439	-	see also 14948 line
34045	PGF	NM_002632.3	544	cagcgaggtggagacatgttca	169461	-	see also 14949 line
34046	PGF	NM_002632.3	633	cgttgagagcggcgaatgtcacc	169465	-	see also 14949 line
34047	PROK1	NM_032414.1	63	tgcacgcgagctcaatcagc	169469	-	see also 14950 line
34048	PROK1	NM_032414.1	60	aggtgccacgcgagctcaatca	169467	-	see also 14950 line
34049	RABEP1	NM_004703.2	1429	ctcgggctcattgcaatccaag	169493	-	see also 3222 line
34050	RABEP1	NM_004703.2	2215	ggcactcgggaggttgatttaa	169522	-	see also 3222 line
34051	SCDGF-B	NM_025208.2	622	cacattcaagtcgatgaactact	169545	-	see also 14952 line
34052	SCDGF-B	NM_025208.2	1004	tactcggtaataagaagaaga	169554	-	see also 14952 line
34053	TFI1	NM_003225.1	236	ccctggtctctctcctaatac	169562	-	see also 14954 line
34054	TFI1	NM_003225.1	230	gggggtccctcgtggtctctatcc	169561	-	see also 14954 line
34055	VEGFC	NM_005429.2	1052	tctcgcgatcagctcctaact	169578	-	see also 3790 line
34056	VEGFC	NM_005429.2	1051	ttctgcgcgatcagctcctaact	169577	-	see also 3790 line
34057	VEGFC	NM_005429.2	866	gtcgcgacaacacacotttttaa	169570	-	see also 3790 line
34058	VEGFC	NM_003378.2	787	cacgcgtgacccgagtggaatctg	169595	-	see also 14956 line
34059	VEGFC	NM_003378.2	785	cacacgtgacccgagtggaatct	169594	-	see also 14956 line
34060	VEGFC	NM_003378.2	1567	gacgatcagacacccctcattgagc	169597	-	see also 14956 line
34061	ADCYAP1	NM_00117.2	510	gacgcgaatagcttattgttag	169605	-	see also 14957 line
34062	ADCYAP1	NM_00117.2	250	cgcacacggagatccttaacgagg	169600	-	see also 14957 line
34063	AGRP	NM_001138.1	622	tgtactacccctctcctaactg	169606	-	signal transduction -
34064	ASMT	NM_004043.1	603	agattttacggccatctacacgg	169613	-	obesity(肥満)
34065	ASMT	NM_004043.1	874	atgtaagatcacccgttttgaca	169615	-	see also 14958 line
34066	CALCB	NM_000728.2	439	ccacacaatgtgggttcacaaagc	169617	-	neuropeptide hormone
34067	CORT	NM_001302.1	231	tctcgtcgttggttggttgagg	169619	-	-
34068	CRH	NM_000756.1	499	aacagcggccgcgaacttttc	169621	-	see also 14959 line
34069	GAL	NM_015973.2	437	ggcacaatcattgatttctgt	169623	-	see also 14960 line
34070	GALP	NM_033106.1	256	ggggagagcagcccttgagatcc	169624	-	see also 14961 line
34071	GALP	NM_033106.1	328	ggcctcagaagagaatgtgatg	169625	-	see also 14962 line
34072	NPY	NM_000905.2	233	ctcgggctgagacactacatca	169627	-	see also 14963 line
34073	NPY	NM_000905.2	236	ggcgtctgagacactacatcaacc	169629	-	see also 14963 line
34074	NTS	NM_006183.3	575	accagaagacccatcacatca	169636	-	see also 14964 line
34075	NTS	NM_006183.3	553	aacggcagctgtatgagaataaa	169635	-	see also 14964 line

図46 (続七)

[illegible]

950

図46 (続き)

34118	GAS	NM_000805.2	151	agccagatgcacccttaggtaca	169825	-	signal_transduction	peptide hormone	-
34119	GCG	NM_002054.2	364	gccaacagctcacgaatttga	169829	-	see also 1328 line		
34120	GCG	NM_002054.2	303	caggctgcccagaatttggc	169828	-	see also 1328 line		
34121	GIP	NM_004123.1	401	ggccagctcaagctaataagg	169845	-	see also 14981 line		
34122	GIP	NM_004123.1	397	agctggcagtaagctaataagg	169843	-	see also 14981 line		
34123	GNRH2	NM_001501.1	390	ccgcacatcccaataaagtgt	169846	-	signal_transduction	-	-
34124	GNRH2	NM_001501.1	392	cgccatccccaataaagtgtga	169847	-	see also 34123 line		
34125	GPB5	NM_145171.2	213	ctggcaacccccctatttgaagc	169849	-	see also 14982 line		
34126	GPHA2	NM_130769.2	282	gtggtaccagacacacacacc	169851	-	see also 14983 line		
34127	GPHA2	NM_130769.2	332	ggcctgaagaagagtgcaagtaca	169853	-	see also 14983 line		
34128	GRTP1	NM_024719.1	588	ttccagacatttgcgataagttt	169863	-	see also 14984 line		
34129	GRTP1	NM_024719.1	591	cagacatttgcgataagtttaag	169865	-	see also 14984 line		
34130	GUCA2A	NM_033553.2	76	gtcacogtgcaggatggaaattt	169866	-	-	-	-
34131	GUCA2A	NM_033553.2	225	ccgaaactttccagaagaactca	169869	-	see also 34130 line		
34132	GUCA2A	NM_033553.2	223	aaccgaactttccagaagaact	169868	-	see also 34130 line		
34133	HAMP	NM_021175.1	252	tgtgtcatcgatcaaatgtgtg	169871	-	see also 14985 line		
34134	IAPP	NM_000415.1	326	aactggagatccaatacatatgg	169874	-	see also 14986 line		
34135	IAPP	NM_000415.1	353	aggaatgcagtagaggttt-aaa	169876	-	see also 14986 line		
34136	IAPP	NM_000415.1	352	ggagaaatgcagtagaggttttaa	169875	-	see also 14986 line		
34137	INS	NM_000207.1	307	agctgtgcatttgggaacaatgc	169880	-	see also 14987 line		
34138	INS	NM_000207.1	172	gcgggaacagagcttctttctac	169878	-	see also 14987 line		
34139	INSL4	NM_002195.1	337	gccttagtaacacacacagaatt	169887	-	see also 14988 line		
34140	INSL4	NM_002195.1	288	tgagactcccaagaagaatgggt	169884	-	see also 14988 line		
34141	INSL5	NM_005478.3	117	ctctgtggcttagatcacatcacg	169901	-	see also 14989 line		
34142	INSL5	NM_005478.3	136	taaggacagctcatctatctgt	169902	-	see also 14989 line		
34143	INSL6	NM_007179.2	351	cactacctgagtataaggataaa	169917	-	see also 14990 line		
34144	INSL6	NM_007179.2	349	gtcactacctgagtataaggata	169916	-	see also 14990 line		
34145	LEP	NM_000230.1	225	gtcacogtggagacttcattcc	169926	-	see also 14991 line		
34146	LEP	NM_000230.1	257	ccccatcctgaacttaccaga	169929	-	see also 14991 line		
34147	LEP	NM_000230.1	253	tcacccccatcctgacttacc	169927	-	see also 14991 line		
34148	LRSAM1	NM_138361.2	473	gacattctgacatctctaaatg	169934	-	see also 14992 line		
34149	LRSAM1	NM_138361.2	619	ggcaacacatcaaggttctagatc	169935	-	see also 14992 line		
34150	MGC45438	NM_152459.2	909	cacagatggaccagctcatgttct	169953	-	see also 14993 line		
34151	MGC45438	NM_152459.2	137	ggctggacactgctgaagtaaa	169952	-	see also 14993 line		
34152	NPPA	NM_006172.1	168	cagagctaatcccatgacacatg	169957	-	see also 14994 line		
34153	NPPA	NM_006172.1	121	acagtgaacttctctcttact	169956	-	see also 14994 line		
34154	POMC	NM_000939.1	810	agcgctacgggggtttcagacc	169959	-	signal_transduction	peptide hormone	obesity(肥満)
34155	PPY	NM_002722.1	57	acctgcgtgctctgttactaca	169960	-	see also 14995 line		
34156	PPY	NM_002722.1	198	aggcctaggtatggaaaaagaca	169962	-	see also 14995 line		
34157	PYY	NM_004160.1	261	cggcagcagctatggaaaaagaga	169963	-	signal_transduction , gpcr	peptide hormone	diabetes(糖尿病)
34158	RETNLB	NM_032579.1	173	ttccttagactccgttatggata	169964	-	see also 14996 line		
34159	RETNLB	NM_032579.1	255	ctctcgtgtgctagtgcacaaag	169969	-	see also 14996 line		
34160	RETNLB	NM_032579.1	174	tccttagactccgttatggataa	169965	-	see also 14996 line		

951

図46 (続き)

34161	RLN1	NM_006911.2	464	cagcagatgtactcgcattaaa	169975	-	see also 14997 line
34162	RLN1	NM_006911.2	210	aggacagatgtattataatgc	169974	-	see also 14997 line
34163	RLN2	NM_005059.2	36	ctgttactactgaaccaatttt	169978	-	-
34164	RLN2	NM_005059.2	41	tactactgaacccaattttccaga	169979	-	see also 34163 line
34165	RLN3	NM_080864.1	385	tgaacagtgagggttagcaaaag	169984	-	-
34166	RLN3	NM_080864.1	388	aagtggggggttagcaaaagtga	169985	-	see also 34165 line
34167	RLN3	NM_080864.1	391	tgggggttagcaaaagtgaat	169986	-	see also 34165 line
34168	STC1	NM_003155.1	513	ttctgtacagcgtctgctaaatt	169994	-	see also 15000 line
34169	STC1	NM_003155.1	377	atccagagtgccggctcaaaact	169992	-	see also 15000 line
34170	STC2	NM_003714.1	478	ggcacaggttcggctgcataagc	170006	-	see also 15001 line
34171	STC2	NM_003714.1	370	ggggcttacatgggatttgcattg	170004	-	see also 15001 line
34172	TG	NM_003235.3	886	gaaggctctcgcagttcaatca	170023	-	see also 2185 line
34173	TG	NM_003235.3	7951	cagcctacagggggcagttctot	170134	-	see also 2185 line
34174	TSHB	NM_000549.1	42	atgtggccaagcggatgcttttt	170140	-	see also 407 line
34175	TSHB	NM_000549.1	105	gtgtcttattgcctaaaccatca	170143	-	see also 407 line
34176	UCN3	NM_053049.1	451	ggccacctgatggcgcaattgg	170155	-	see also 15003 line
34177	UCN3	NM_053049.1	57	gacaggcctcccccacaagtct	170153	-	see also 15003 line
34178	UTS2	NM_006786.2	302	ctctggacaagatcctaacttt	170164	-	see also 15004 line
34179	UTS2	NM_006786.2	305	tggacaagatcctaacttttac	170166	-	see also 15004 line
34180	ADAM11	NM_002390.2	2160	cacggggggagcaggagagatata	170180	-	see also 15005 line
34181	ADAM11	NM_002390.2	712	accaagtatgtggagctaaattgt	170176	-	see also 15005 line
34182	ADAM2	NM_001464.2	1182	cacaatcagcctcgttagatcc	170232	-	see also 15006 line
34183	ADAM2	NM_001464.2	2078	ccctgaagagcgtacattgaga	170258	-	see also 15006 line
34184	ADAM22	NM_004194.2	843	atcgggttcctgtgtacatacc	170278	-	see also 15007 line
34185	ADAM22	NM_004194.2	863	accaatacctatgcgaatctgt	170280	-	see also 15007 line
34186	ADAM23	NM_003812.1	1390	ctcggggtagacattcactata	170374	-	see also 15008 line
34187	ADAM23	NM_003812.1	434	agcgtccgcattgggaatgaac	170339	-	see also 15008 line
34188	ADAM23	NM_003812.1	947	agcacaggctggccacacataat	170363	-	see also 15008 line
34189	ECM2	NM_001393.1	945	accggtaagagagagatatttc	170425	-	see also 15009 line
34190	ECM2	NM_001393.1	1219	aggcataggtccaaaagcattca	170429	-	see also 15009 line
34191	ICAM2	NM_000873.2	119	atcggatgagaaaggatttcagg	170464	-	see also 15010 line
34192	ICAM2	NM_000873.2	110	ctgtccaggatcggatgagaagg	170462	-	see also 15010 line
34193	ICAM3	NM_002162.2	1515	gactatcgtactggccttaattgt	170489	-	see also 15011 line
34194	ICAM3	NM_002162.2	1358	tcocgttcctgtaacgttaaca	170481	-	see also 15011 line
34195	ICAM4	NM_001544.2	777	ggcgctgtgtacctatgcaggt	170495	-	see also 15012 line
34196	ICAM4	NM_001544.2	773	ctgtggcgctgtgtacctatgc	170494	-	see also 15012 line
34197	TGFB1	NM_000358.1	291	taagagctgtctcgtgatatga	170499	-	see also 15013 line
34198	TGFB1	NM_000358.1	1128	aacgggggtgctccactacattga	170510	-	see also 15013 line
34199	DOK4	NM_018110.2	697	gacagatcgtcttcaatgtttcc	170534	-	see also 15014 line
34200	DOK4	NM_018110.2	903	ctgggaaaggactctatacttc	170536	-	see also 15014 line
34201	DOK5	NM_018431.2	774	ggcggtatggcgtgactactacg	170558	-	see also 7469 line
34202	DOK5	NM_018431.2	474	atgacagatccctccaaagctttt	170549	-	see also 7469 line
34203	FLJ22570	NM_024872.1	1044	ggccaccacgtccagaaaatgc	170562	-	-
34204	FRS2	NM_006654.2	1518	cagacgcccgaagtttagaacaca	170596	-	see also 4699 line

図46 (続き)

952

34205	FRS2	NM_006654.2	392	ccgcgaacacgactgaagtaaaa	170566	-	see also 4699 line	
34206	FRS3	NM_006653.3	1477	cccaaggcagcttaactatcc	170614	-	see also 15016 line	
34207	FRS3	NM_006653.3	403	ggcggctccgctggccttatct	170602	-	see also 15016 line	
34208	IRS2	NM_003749.2	3433	tcgcgctctccgactacatgaacc	170618	-	signal transduction	diabetes mellitus(糖尿病)、diabetes(糖尿病)、obesity(肥満)
34209	IRS2	NM_003749.2	4468	caactacgcagcagcttctct	170620	-	see also 34208 line	
34210	IRS2	NM_003749.2	3432	ctccgctctccgactacatgaac	170617	-	see also 34208 line	
34211	IRS4	NM_003604.1	753	ggcggagccaccctctctaaag	170631	-	see also 15017 line	
34212	IRS4	NM_003604.1	398	ctcggctggaatactactagaat	170627	-	see also 15017 line	
34213	MGC20785	NM_152721.1	657	ttgactgaaccaatgacattatc	170699	-	see also 15018 line	
34214	MGC20785	NM_152721.1	786	atgtctgtgcacagacatttcc	170705	-	see also 15018 line	
34215	CD4	NM_000616.2	769	agcctccagcatagctctataag	170714	-	see also 15019 line	
34216	CD4	NM_000616.2	823	cactcgctttacagttgaaaag	170717	-	see also 15019 line	
34217	TLR8	NM_016610.2	3177	ggctacggcagcggagctgtaag	170837	-	see also 15020 line	
34218	TLR8	NM_016610.2	272	gagttatgcccgaagaaattt	170725	-	see also 15020 line	
34219	PDYN	NM_024411.2	750	tgagggtttttgcgcaatacc	170847	-	see also 15021 line	
34220	PDYN	NM_024411.2	549	aagcaagtttctccaaagtatct	170844	-	see also 15021 line	
34221	REA	NM_007273.3	985	caacagaatgctatctctocaca	170866	-	see also 15022 line	
34222	REA	NM_007273.3	983	atcacagaatgctatctctoca	170865	-	see also 15022 line	
34223	BID	NM_001196.2	678	gttttcacacaaacagtaattt	170873	-	see also 15023 line	
34224	BID	NM_001196.2	366	cactccgcttgggaagaataga	170870	-	see also 15023 line	
34225	GPRC5D	NM_018654.1	268	cccgtacgtactttctcttgg	170884	-	see also 15024 line	
34226	GPRC5D	NM_018654.1	244	atagagctcaatcaacaaactgc	170881	-	see also 15024 line	
34227	GPRC5D	NM_018654.1	267	cccgtacgtactttctcttgg	170883	-	see also 15024 line	
34228	BZRAP1	NM_004758.1	1161	gacaaactaccgctgattctagg	170895	-	see also 15025 line	
34229	BZRAP1	NM_004758.1	5067	caactaccgctcaggactttgt	170910	-	see also 15025 line	
34230	BZRAP1	NM_004758.1	5610	gacgatgacgggttctactatgg	170913	-	see also 15025 line	
34231	ALCAM	NM_001627.1	1181	ttgatctagcccgtcattttct	170956	-	see also 1080 line	
34232	ALCAM	NM_001627.1	1114	cccgtgtcagcacaatctgc	170954	-	see also 1080 line	
34233	ALCAM	NM_001627.1	721	tgctcgtgacataattatggac	170947	-	see also 1080 line	
34234	ALS2CR3	NM_015049.1	1849	agcttgcgtcgacaaaactattt	171012	-	see also 6208 line	
34235	ALS2CR3	NM_015049.1	1518	ggggaactatgctaaagaagctga	171006	-	see also 6208 line	
34236	ANGPT1	NM_001146.3	1129	ggcttgggtactctgcaaacata	171050	-	see also 727 line	
34237	ANGPT2	NM_001147.1	1445	cagcaagctatgtgttaaaat	171101	-	see also 15029 line	
34238	ANGPT2	NM_001147.1	1234	tggcatctacacgttaacattcc	171095	-	see also 15029 line	
34239	ANGPTL1	NM_004673.3	1273	taccacgggtaacttcatcaat	171138	-	see also 15030 line	
34240	ANGPTL1	NM_004673.3	1277	accgtaactttcatcaatgaag	171140	-	see also 15030 line	
34241	ANGPTL2	NM_012098.2	597	ggctcgcaagagagtgctattta	171166	-	see also 5129 line	
34242	ANGPTL2	NM_012098.2	1657	tggaaactgagagcagtgattat	171171	-	see also 5129 line	
34243	APOB	NM_000384.1	9929	gtcggcattcggctatgttcc	171454	-	see also 15032 line	
34244	APOB	NM_000384.1	2027	ctctcggaaactatcaacttaca	171211	-	see also 15032 line	
34245	APOE	NM_000041.1	319	aaggaggttgaaggctcaaatc	171584	-	see also 15033 line	
34246	APOE	NM_000041.1	992	ctgtgcccagcagacactactga	171586	-	see also 15033 line	
34247	APOF	NM_001638.1	767	agcgatgaagtgctgcacttaaac	171597	-	see also 15034 line	

953

図46 (続き)

34248	APOF	NM_001638.1	384	taccgcagaggtggtgtaagtc	171592	-	see also 15034 line
34249	APOF	NM_001638.1	984	atcaagagctactagtagctcc	171605	-	see also 15034 line
34250	ASIP	NM_001672.2	168	tggcgtgaacaaagaatacaca	171609	-	see also 15036 line
34251	C17	NM_018659.1	340	ctcgtctcagagagagattgg	171611	-	see also 15037 line
34252	C17	NM_018659.1	344	tctgcaggagagatttggatt	171612	-	see also 15037 line
34253	C3	NM_000064.1	2736	ctcgttgcctgcctcatatgca	171639	-	see also 15038 line
34254	C3	NM_000064.1	2734	tctcgttgcctgcctcatatgt	171638	-	see also 15038 line
34255	C3	NM_000064.1	2733	gtcctcgttgcctgcctcatatg	171637	-	see also 15038 line
34256	CD1D	NM_001766.2	870	ctgggaacgcctcaataaattc	171679	-	see also 15039 line
34257	CD1D	NM_001766.2	867	acctgggaacgcctcaataaac	171677	-	see also 15039 line
34258	CD72	NM_001782.1	219	caactacgagaatttcaagtc	171685	-	see also 15040 line
34259	CD72	NM_001782.1	217	atcaactacgagaatttcaagt	171684	-	see also 15040 line
34260	GD80	NM_005191.2	629	acgggaccatcttgatatact	171706	-	see also 15041 line
34261	CD80	NM_005191.2	699	caatacagagtggtgtgtctga	171707	-	see also 15041 line
34262	CD80	NM_005191.2	752	acctggcgaagtgacgttaaca	171708	-	see also 15041 line
34263	DBI	NM_020548.2	172	agcaactgtggcgacataata	171727	-	see also 15042 line
34264	DBI	NM_020548.2	152	atctatggccactacaacaagc	171725	-	see also 15042 line
34265	EDN3	NM_000114.1	503	gacaaggagtggtctactattg	171730	-	signal transduction toxin
34266	EDN3	NM_000114.1	720	ctctggacgctcagcagtaattca	171731	-	see also 34265 line
34267	EFNA1	NM_004428.2	470	aggaacacgactactactacatc	171736	-	see also 2962 line
34268	F2R	NM_001992.2	453	acctagatccccctgctattct	171742	-	see also 15045 line
34269	F2R	NM_001992.2	1436	gtcatcagcccccttaattact	171767	-	see also 15045 line
34270	F2RL1	NM_005242.3	823	cagcaactgtcatgtatttgc	171783	-	see also 15046 line
34271	F2RL1	NM_005242.3	1236	ggcgaagtgtccgcactgtaaag	171791	-	see also 15046 line
34272	GFRA3	NM_001496.2	367	ggccgagccttggttaactatga	171798	-	see also 15047 line
34273	GFRA3	NM_001496.2	366	tgcgccgacgcttggttaactatg	171797	-	see also 15047 line
34274	GFRA3	NM_001496.2	1037	cagctaagatgcggttttcacagc	171802	-	see also 15047 line
34275	GLG1	NM_012201.1	2538	ggcaacgctcagattatcggaag	171863	-	see also 5191 line
34276	GLG1	NM_012201.1	1376	tgttcgcggattacatcgaaaag	171835	-	see also 5191 line
34277	GLMN	NM_007070.2	618	gtgttgcagggccttaataagagt	171914	-	see also 15049 line
34278	GLMN	NM_007070.2	1248	agctatgtctcagctgtatatta	171929	-	see also 15049 line
34279	IGOSL	NM_015259.2	845	cagtaagtcacggcgagaaaaac	171954	-	see also 15050 line
34280	IGOSL	NM_015259.2	607	cccaagtgactagatgaataaa	171952	-	see also 15050 line
34281	NMU	NM_006681.1	211	tgccgaggtgtcccaattatacc	171956	-	see also 15051 line
34282	NMU	NM_006681.1	531	cagagtgtagcagaagaattccaaa	171959	-	see also 15051 line
34283	PCSK1N	NM_013271.2	615	tacttgtaggaaggattcttgc	171960	-	-
34284	PLXNC1	NM_005761.1	3633	cacggagtcgctgcgaaaaac	172033	-	see also 4018 line
34285	PLXNC1	NM_005761.1	2655	ggcgacttactgcgggttttag	172013	-	see also 4018 line
34286	SELPLG	NM_003006.2	179	gagacaggccacccaatagagt	172077	-	see also 15053 line
34287	SELPLG	NM_003006.2	190	ccgaatatgagtaactagattat	172078	-	see also 15053 line
34288	STOML2	NM_013442.1	691	acccgagagtcggcccatcatgt	172095	-	see also 15054 line
34289	STOML2	NM_013442.1	337	gtgactctcgacaatgtaactot	172087	-	see also 15054 line
34290	TAC3	NM_013251.1	414	gactctctacggatggaatca	172103	-	see also 15055 line

Waardenburg-Hirschsprung disease(ワールデン
ブルグヒルシュ病)

図46 (続き)

954

34291	TAC3	NM_013251.1	422	tacggatgtgaatcaagaagacg	172104	-	see also 15055 line
34292	WNT5A	NM_003392.3	713	gcgcgagagcggcctcacatc	172115	-	see also 15056 line
34293	WNT5A	NM_003392.3	454	tgtgtgtcgttagtatgaataa	172109	-	see also 15056 line
34294	WNT7A	NM_004625.3	400	tggcgcgaagcatcatctgtaac	172117	-	see also 15057 line
34295	WNT7A	NM_004625.3	401	ggcgccaagcatcatctgtaaca	172118	-	see also 15057 line
34296	ZIP3	NM_007155.4	779	caactgccaactgoggtgtttgt	172124	-	see also 15058 line
34297	ARHGEF2	NM_004723.2	1591	atgcctgcagaatcatatcgtac	172138	-	see also 3238 line
34298	ARHGEF2	NM_004723.2	1592	tcgctgcagaatctaactgtaacg	172139	-	see also 3238 line
34299	CHN1	NM_001822.2	746	cacgtgaggatatacacaacctaa	172172	-	see also 1177 line
34300	CHN1	NM_001822.2	724	gacgataaaccatattatgagc	172170	-	see also 1177 line
34301	CHN1	NM_001822.2	1188	ttgagtcctagaggtcttaattct	172180	-	see also 1177 line
34302	CHN2	NM_004067.1	586	aagaggtttgagtgattcatga	172208	-	see also 15061 line
34303	CHN2	NM_004067.1	975	ctgtgattgaacgtacacaaac	172224	-	see also 15061 line
34304	DGKD	NM_003648.2	3297	tcgcctcgtgaccacgaatttaa	172288	-	see also 15062 line
34305	DGKD	NM_003648.2	2156	gtcatacgtcgccctgtttaataa	172273	-	see also 15062 line
34306	DGKD	NM_001347.2	334	tcctgtgcgacgtcgcaatttc	172292	-	see also 15063 line
34307	DGKD	NM_001347.2	338	gtcgacgactcgtgcaatttcatt	172293	-	see also 15063 line
34308	VAV2	NM_003371.2	1092	gactggcagatgatacaaatga	172317	-	see also 15064 line
34309	VAV2	NM_003371.2	1149	agcgaatttcagaggtctataga	172320	-	see also 15064 line
34310	VAV3	NM_006113.3	2423	tgccatcgctgggtgacttct	172402	-	see also 4249 line
34311	VAV3	NM_006113.3	1330	cagtgatcgtatgaagagaaa	172360	-	see also 4249 line
34312	ACBD3	NM_022735.3	400	aagttcttatggcccatataat	172411	-	see also 8441 line
34313	ACBD3	NM_022735.3	428	cactttcctcgggtggattct	172412	-	see also 8441 line
34314	ACBD4	NM_024722.1	646	accocattggacgatataagtg	172441	-	see also 15067 line
34315	ACBD4	NM_024722.1	642	tgggaacccatggacgatataa	172439	-	see also 15067 line
34316	ACBD5	NM_145698.1	615	aacgcacaaacccgttaattgtaa	172453	-	see also 9795 line
34317	ACBD5	NM_145698.1	1588	tgcatacgtttggccatcatatgg	172473	-	see also 9795 line
34318	ACBD6	NM_032360.2	672	ggcctgtgtatcgaggacataaagg	172491	-	see also 9172 line
34319	ACBD6	NM_032360.2	412	caggaaatatatcgagtagttaa	172480	-	see also 9172 line
34320	PEC1	NM_006117.1	601	ctgactaaactcaactgatattcc	172513	-	see also 4254 line
34321	PEC1	NM_006117.1	243	agggtatttgacttgatcaaca	172501	-	see also 4254 line
34322	NDUFAB1	NM_005003.2	266	caggacacgtgtctttaactgatt	172526	-	see also 15071 line
34323	NDUFAB1	NM_005003.2	270	accgtgtctttacgtattgaaa	172528	-	see also 15071 line
34324	CPNE1	NM_003915.2	1308	gtccaaacaggggtcaatgagtagc	172550	-	see also 2673 line
34325	CPNE1	NM_003915.2	1011	tgcgaatgctccgattatgacagt	172543	-	see also 2673 line
34326	CPNE3	NM_003909.1	1064	ggcccaatggcgttaattgagtagt	172591	-	see also 2668 line
34327	DOC2B	NM_003585.1	1058	tcggaacccctaaagtgaacacata	172621	-	see also 2379 line
34328	DOC2B	NM_003585.1	749	tactaaggagtaacagatgaaga	172620	-	see also 2379 line
34329	DOC2B	NM_003585.1	1233	ttggaaaatccaacgatttcatt	172625	-	see also 2379 line
34330	PEPP2	NM_019012.2	1205	agcccgatcgagtcatacagaga	172662	-	see also 7661 line
34331	PEPP2	NM_019012.2	353	aacggccaataagatgatgataat	172637	-	see also 7661 line
34332	PIK3R1	NM_181504.2	468	aacacactacoggaatgaattctct	172724	-	see also 15075 line
34333	PIK3R1	NM_181504.2	1035	aacgagtggtgggcaatgaaaa	172743	-	see also 15075 line
34334	PLEKHA4	NM_020904.1	1336	accccggtgagtcgcatgagtg	172797	-	see also 15076 line

955

図46 (続き)

34335	PLEKHA4	NM_020904.1	1338	ccggttagtcgcattgatgcc	172798	-	see also 15076 line
34336	PLEKHA4	NM_020904.1	2574	ggcgtcgagtgccacagaatga	172804	-	see also 15076 line
34337	PSCD3	NM_004227.3	400	aagacgttcgcacagtcctttat	172812	-	see also 15077 line
34338	PSCD3	NM_004227.3	178	tagaacatttcgaagaaaaaag	172808	-	see also 15077 line
34339	TULP3	NM_003324.2	358	ctgaacacagacgaagttcatgc	172828	-	see also 15078 line
34340	TULP3	NM_003324.2	735	ccccactactatgtactatgg	172835	-	see also 15078 line
34341	DAPP1	NM_014395.1	697	cggatccttagaccctaacagaatg	172853	-	see also 15078 line
34342	DAPP1	NM_014395.1	303	ggaggccaaagattctgttaaac	172846	-	see also 15078 line
34343	LYPLA3	NM_012320.2	1097	ctgaacgtgaccccttaaatctgc	172879	-	see also 15080 line
34344	LYPLA3	NM_012320.2	258	gacgaaagctacttcaaatct	172860	-	see also 15080 line
34345	OSBPL1A	NM_018030.3	1682	tgccacgtttgaagcttcaaaaa	172908	-	see also 15081 line
34346	OSBPL1A	NM_018030.3	1683	ggcacgtttgacgttcaaaaa	172909	-	see also 15081 line
34347	OSBPL1A	NM_018030.3	1057	tctacagcgccttaactgaatac	172885	-	see also 15081 line
34348	PAFAH2	NM_000437.2	388	tggcagagtaacctgaatttat	172963	-	see also 15082 line
34349	PAFAH2	NM_000437.2	356	gtggattcccgctatgagtact	172962	-	see also 15082 line
34350	PLA2G7	NM_005084.2	406	tccgttggtttgacagactaat	172992	-	see also 15083 line
34351	PLA2G7	NM_005084.2	1040	gtggagcaacggtttacagact	173013	-	see also 15083 line
34352	PLEKHA1	NM_021622.2	2250	aacgtctgaactttctatgtgc	173052	-	see also 15083 line
34353	PLEKHA1	NM_021622.2	2149	aaggaaactttctgttaatacc	173045	-	see also 15085 line
34354	PLEKHA3	NM_019091.2	803	accatccgagtccttagttct	173069	-	see also 15085 line
34355	PLEKHA3	NM_019091.2	802	caccatccgagtccttagtttc	173068	-	see also 15085 line
34356	PLEKHA3	NM_019091.2	738	cacaaagcttgaggatgtgtga	173066	-	see also 15085 line
34357	RASAL1	NM_004658.1	1335	tccaaagctgaggaaacagttat	173080	-	see also 15086 line
34358	RASAL1	NM_004658.1	756	gaaccattgcacgtgtgttttg	173075	-	see also 15086 line
34359	SDPR	NM_004657.3	582	agctctcgaagcaaacatttc	173089	-	see also 15087 line
34360	SDPR	NM_004657.3	914	gggacaaaagatctatctgtaga	173096	-	see also 15087 line
34361	SEC14L2	NM_012429.1	1006	atgaacacacgctgcagatttc	173115	-	see also 15088 line
34362	SEC14L2	NM_012429.1	607	agtgagagaccatcaataatt	173106	-	see also 15088 line
34363	SYT1	NM_005639.1	220	gccatagtcgagtcctttagt	173122	-	see also 3914 line
34364	SYT1	NM_005639.1	198	accgtgggcttaattgcaatag	173119	-	see also 3914 line
34365	FABP2	NM_000134.2	90	accggagtgaaactatgacaag	173136	-	see also 15090 line
34366	FABP2	NM_000134.2	228	tfcgaacacattgaagttgtttt	173140	-	see also 15090 line
34367	FABP3	NM_004102.2	354	cacacttgtgcggagcctaattg	173150	-	see also 15091 line
34368	FABP3	NM_004102.2	74	agctagtgacagcaagaatttc	173145	-	see also 15091 line
34369	FABP3	NM_004102.2	162	taocacaatcatgaaagaatg	173148	-	see also 15091 line
34370	FABP4	NM_001442.1	414	gtcaacttcacagagatttatga	173160	-	see also 15092 line
34371	FABP4	NM_001442.1	416	cacttcacagagatttatgaga	173161	-	see also 15092 line
34372	FABP6	NM_001445.1	198	atctcagcgatgtaatcgaaaa	173164	-	see also 15093 line
34373	FABP6	NM_001445.1	193	tgggatctccagcgatgaatc	173162	-	see also 15093 line
34374	RBP3	NM_002900.1	1446	ctgcgttcgatagttttgtctga	173168	-	see also 1939 line
34375	RBP3	NM_002900.1	3572	cgcggagaggttcaactatca	173184	-	see also 1939 line
34376	ALB	NM_000477.3	882	ggcggacattgcgaagtatct	173203	-	see also 15095 line
34377	ALB	NM_000477.3	1697	ttgttgagctcgtgaacacaag	173221	-	see also 15095 line

956

図46 (続き)

[illegible]

図46 (続き)

34420	EDG7	NM_012152.1	697	gtctgtctccgcatcaagtg	173448	-	see also 15112 line
34421	FABP1	NM_001443.1	208	tcacaagtgcacaaacgaatt	173456	-	see also 15113 line
34422	FABP1	NM_001443.1	356	acggcgacataatcccaatacc	173459	-	see also 15113 line
34423	FABP7	NM_001446.3	402	gacaaacacaaaggaattatca	173463	-	see also 15114 line
34424	FABP7	NM_001446.3	666	tcctgttcgcacatgatgagaagg	173471	-	see also 15114 line
34425	LBP	NM_004139.2	644	atcggtctcccgatctcacagc	173477	-	see also 15115 line
34426	LBP	NM_004139.2	653	ctccgatctacagccttattcc	173478	-	see also 15115 line
34427	LIPF	NM_004190.1	862	gtcgcttgatgtgtatcatca	173521	-	see also 15116 line
34428	LIPF	NM_004190.1	497	agccacaatcgacttcattgaa	173515	-	see also 15116 line
34429	LIPF	NM_004190.1	429	tactattcacagattcagttga	173513	-	see also 15116 line
34430	MTP	NM_000253.1	1960	cccgcttcggcatctactacagc	173581	-	see also 194 line
34431	MTP	NM_000253.1	1312	gagccctcattagtaattcaaa	173565	-	see also 194 line
34432	PC7P	NM_021213.1	597	tggagttcctaactcttgaag	173620	-	see also 15117 line
34433	PCTP	NM_021213.1	342	gtccaacagagactatgtctacc	173615	-	see also 15117 line
34434	PITPN	NM_006224.2	632	aacacgtggaagccgtatatata	173630	-	see also 4317 line
34435	PITPN	NM_006224.2	634	caogtggagccgtatatata	173631	-	see also 4317 line
34436	PITPNB	NM_012399.2	201	gggacagtatccgacacaaattt	173646	-	see also 15119 line
34437	PITPNB	NM_012399.2	203	gacagtatacgacacaaattat	173647	-	see also 15119 line
34438	PITPNB	NM_012399.2	205	cagtatacgacacaaattatca	173648	-	see also 15119 line
34439	PLIN	NM_002666.1	440	cagtaacccctgaagattgc	173660	-	see also 15120 line
34440	PLIN	NM_002666.1	282	ctgtgtgaatgcctatgagaag	173658	-	see also 15120 line
34441	PLTP	NM_006227.2	1249	tgcgcaggttcgaaattattcc	173671	-	see also 15121 line
34442	PLTP	NM_006227.2	1253	caegttccgaattcttccaacc	173672	-	see also 15121 line
34443	PMP2	NM_002677.2	179	gtggagtttagccaccagaaact	173676	-	see also 15122 line
34444	PMP2	NM_002677.2	296	ttaagctagtagccaggaattga	173678	-	see also 15122 line
34445	PSAP	NM_002778.1	1051	tactcgacgttttgacaaaatg	173690	-	see also 15123 line
34446	PSAP	NM_002778.1	1458	tctgtgtcttgaaaaattggagc	173693	-	see also 15123 line
34447	RBP1	NM_002899.2	496	gtgtgtctcgaagcaagatttc	173698	-	see also 15124 line
34448	RBP1	NM_002899.2	256	tgcaggacggtagccatgatgc	173694	-	see also 15124 line
34449	RBP2	NM_004164.2	429	gtgccgtcaagtgttcaaaaaga	173710	-	see also 15125 line
34450	RBP2	NM_004164.2	162	cactcagacgaaggtattgatc	173700	-	see also 15125 line
34451	RBP5	NM_031491.1	325	aggagcgtggagcggacgaaaaatg	173711	-	retinol binding
34452	RRAGC	NM_022157.2	735	cacaactgcgcgaccttggaatac	173724	-	see also 8315 line
34453	RRAGC	NM_022157.2	676	tagtatctatgaacattcaatat	173722	-	see also 8315 line
34454	SCP2	NM_002979.2	240	gagggctctctatcacagtttgg	173747	-	see also 15127 line
34455	SCP2	NM_002979.2	998	aaeggtcaacgcgtgttgataga	173766	-	see also 15127 line
34456	SEC14L3	NM_174975.2	59	ggcgaagtccgagaaacgctcc	173785	-	see also 15128 line
34457	SEC14L3	NM_174975.2	136	tccgagctcggaattttgacttg	173787	-	see also 15128 line
34458	SEC14L4	NM_174977.2	528	ggcgctgatgtgttgacatgg	173812	-	see also 15129 line
34459	SEC14L4	NM_174977.2	446	tccgggaagcgcataaagctctgt	173811	-	see also 15129 line
34460	STAR	NM_000349.1	258	cccttagcagctggaataacacagg	173817	-	see also 15130 line
34461	STAR	NM_000349.1	255	cacccttagcagctggaataaacc	173816	-	see also 15130 line
34462	STARD3	NM_006804.2	1188	ggcgagggagccgactattgtca	173832	-	see also 4784 line
34463	STARD3	NM_006804.2	731	tccgagggagcagttctattoacc	173827	-	see also 4784 line

図46 (続き)

958

34484	STARD3	NM_008804.2	932	accgtgtacaccatgaagtcc	173830	-	see also 4784 line
34465	STARD4	NM_139164.1	670	aactcttatgtattacgaaa	173853	-	see also 15132 line
34466	STARD4	NM_139164.1	673	ttctatgtgtattacgaaaagc	173854	-	see also 15132 line
34467	STARD5	NM_030574.2	186	accgagagagagcattgtatat	173855	-	see also 8891 line
34468	STARD6	NM_139171.1	318	ttccctcagagactttatcgact	173875	-	see also 15133 line
34489	STARD6	NM_139171.1	353	agcctacgaagaagaatataaac	173878	-	see also 15133 line
34470	STARD6	NM_139171.1	326	gagactttatgacttagtgac	173876	-	see also 15133 line
34471	CD209	NM_021155.2	1102	aaacgacgacaaatgaattctgc	173898	-	see also 15134 line
34472	CD209	NM_021155.2	1096	ggctggaagacgacaaatgtaa	173895	-	see also 15134 line
34473	LMAN2L	NM_030805.1	534	agcgggtattccctacatctca	173907	-	see also 15135 line
34474	LMAN2L	NM_030805.1	162	gtcaaacgttcgagtaactgaaa	173904	-	see also 15135 line
34475	MBL2	NM_000242.1	702	cccacaatgctggttcgtgga	173923	-	see also 15136 line
34476	MBL2	NM_000242.1	415	cagaaatggcacgtatcaaaaag	173922	-	see also 15136 line
34477	APCS	NM_001639.2	256	ttgtttttcagacctatagta	173933	-	see also 15137 line
34478	APCS	NM_001639.2	351	aagagttggagatagtagctat	173937	-	see also 15137 line
34479	ASGR1	NM_001671.2	703	gggctgacggccgacaaactatgc	173945	-	see also 15138 line
34480	ASGR2	NM_001181.2	963	cacagactataggcacaactaca	173946	-	receptor_activity, -
34481	ATRN	NM_012070.2	3117	agcactcgagagacctcatatct	174029	-	signal_transduction -
34482	BCAN	NM_021948.3	1617	ccctaggagcctctagaatttg	174054	-	see also 5106 line
34483	BCAN	NM_021948.3	1616	ccctaggagcctctcagaattt	174053	-	see also 15140 line
34484	C14orf27	NM_175060.1	1406	cacgatctacaccttcaaatgt	174065	-	see also 15140 line
34485	C14orf27	NM_175060.1	1019	tactgtacatcgagcagcaaatcg	174062	-	see also 15141 line
34486	C21orf63	NM_058187.3	644	tcggcattctacgataagttcc	174081	-	see also 15142 line
34487	C21orf63	NM_058187.3	639	tgcctctggcattctacgataag	174079	-	see also 15142 line
34488	CD207	NM_015717.1	219	ctgctcagccgctcctttatcc	174101	-	see also 15143 line
34489	CD207	NM_015717.1	165	cccacagtcctgctgctcattat	174099	-	see also 15143 line
34490	CD209L	NM_014257.2	1120	atcgatgtgacgttgacaattac	174118	-	see also 15144 line
34491	CD209L	NM_014257.2	1121	tcgatgtgacgttgacaattact	174119	-	see also 15144 line
34492	CD22	NM_001771.1	2423	ctgcgatgacacggctcacttatt	174155	-	see also 15145 line
34493	CD22	NM_001771.1	445	aacgaatacacctcactgtctct	174126	-	see also 15145 line
34494	CD33	NM_001772.1	231	ggccacaaaacagctagatcaag	174162	-	see also 15146 line
34495	CD33	NM_001772.1	232	ggccacaaaacagctagatcaaga	174163	-	see also 15146 line
34496	CD69	NM_001781.1	284	gtccagggcccaatacacattctca	174171	-	see also 15147 line
34497	CD69	NM_001781.1	198	tcctgtcctgtgtgtgttaatga	174170	-	see also 15147 line
34498	CHODL	NM_024944.2	1060	aacaataccctctcttactga	174189	-	see also 15148 line
34499	CHODL	NM_024944.2	659	cccgggacagagatttctgagg	174179	-	see also 15148 line
34500	CHST4	NM_005769.1	1042	ttcccgaatgtatgaattctgtgg	174207	-	see also 15149 line
34501	CHST4	NM_005769.1	1256	taccggcactgcagatctgaaaca	174214	-	see also 15149 line
34502	CLEC1	NM_016511.2	443	aactctgtgtgagctgataaac	174222	-	see also 15150 line
34503	CLEC1	NM_016511.2	428	agcatgtggctgaaaaactctgt	174221	-	see also 15150 line
34504	CLEC2	NM_016509.1	223	gtcatgcagcgcaattactaca	174229	-	see also 15151 line
34505	CLEC2	NM_016509.1	219	gtctgtcatgcagcgcaattacc	174228	-	see also 15151 line
34506	CLECSF1	NM_005752.1	410	atcaacgcccctccaagactatgg	174242	-	see also 15152 line

959

図46 (続き)

34507	CLECSF1	NM_005752.1	415	cgccctccaaagactatgttaaaa	174243	-	see also 15152 line
34508	CLECSF11	NM_130441.1	654	ctgtccaagttaacagagatca	174256	-	see also 15153 line
34509	CLECSF11	NM_130441.1	656	gtccaagttaacagagatcaac	174257	-	see also 15153 line
34510	CLECSF12	NM_022570.3	210	caacttgaactctcaaaacaaac	174275	-	see also 15154 line
34511	CLECSF12	NM_022570.3	214	tgaactctcaaaagcaataccagg	174276	-	see also 15154 line
34512	CLECSF13	NM_006344.1	490	agcagcttggaaagaacacatagc	174305	-	see also 15155 line
34513	CLECSF13	NM_006344.1	210	gacaagagctatgaataactcc	174301	-	see also 15155 line
34514	CLECSF13	NM_173535.1	368	ggcagaaatcgagagactatcc	174315	-	see also 15156 line
34515	CLECSF13	NM_173535.1	1343	gaagtttaagagagagatcagaga	174342	-	see also 15156 line
34516	CLECSF2	NM_005127.2	858	tgcgacacctaaactaataatgaca	174355	-	see also 15157 line
34517	CLECSF2	NM_005127.2	854	aacatgccgacctaactataatt	174354	-	see also 15157 line
34518	CLECSF5	NM_013252.2	680	tgcgacattggcctaacaaga	174375	-	see also 15158 line
34519	CLECSF5	NM_013252.2	503	aggatccacattggcaattgtca	174368	-	see also 15158 line
34520	CLECSF6	NM_016184.2	854	tgcgttgtgctaattttcgtaa	174387	-	see also 15159 line
34521	CLECSF6	NM_016184.2	849	agcgtgcgttgtgctaatttt	174385	-	see also 15159 line
34522	CLECSF8	NM_080387.4	597	tggatagacggcttcttacttcc	174407	-	see also 15160 line
34523	CLECSF8	NM_080387.4	464	tccagtcacactctctatttcc	174404	-	see also 15160 line
34524	CLECSF9	NM_014358.1	609	tggacggcacaccttgacaaag	174423	-	see also 15161 line
34525	CLECSF9	NM_014358.1	448	tctctgggcgttaagttaaga	174419	-	see also 15161 line
34526	CLE-1	NM_138337.2	597	tggcataaggaacagctgtattt	174433	-	see also 15162 line
34527	CLE-1	NM_138337.2	729	cagagtagatcatatgactattg	174440	-	see also 15162 line
34528	COLEC10	NM_006438.2	482	cceggctcaagacactatgaag	174457	-	see also 15163 line
34529	COLEC10	NM_006438.2	852	caagagtgccactcttaccatgt	174466	-	see also 15163 line
34530	COLEC11	NM_024027.3	165	ccctgtggcgttcttaatacgc	174469	-	-
34531	COLEC11	NM_024027.3	163	ggccctggggggcgttctaata	174468	-	see also 34530 line
34532	COLEC11	NM_024027.3	808	cccatgcggacactcaacaagt	174471	-	see also 34530 line
34533	COLEC12	NM_030781.2	393	atctcgcaaaactatgatgaca	174479	-	see also 15164 line
34534	COLEC12	NM_030781.2	212	tccgttaacaagcgggtttgtatt	174473	-	see also 15164 line
34535	CSAD	NM_015989.2	567	tggtaacccctcgggttctcaacc	174525	-	see also 15165 line
34536	CSAD	NM_015989.2	529	ggcgggtgtcggcgtgtgattcg	174524	-	see also 15165 line
34537	DCL-1	NM_014880.3	571	tctctagcacagtaatttgaca	174542	-	see also 15166 line
34538	DCL-1	NM_014880.3	663	accgaccccaataoactttaaa	174548	-	see also 15166 line
34539	DGOR2	NM_005137.1	1475	acctcctcacaggcatacaaat	174562	-	see also 3612 line
34540	DGOR2	NM_005137.1	1478	tccctacacaggatacaagatcc	174564	-	see also 3612 line
34541	DGOR2	NM_005137.1	1477	ctccctacacggcatacaagtac	174563	-	see also 3612 line
34542	DTX2	NM_020892.1	2017	tgcgggacacatctcatagtta	174571	-	see also 15168 line
34543	DTX2	NM_020892.1	2019	cgggacacatccctcatagtta	174573	-	see also 15168 line
34544	FCN3	NM_003665.2	774	atctgtttacccgatcaaatcca	174578	-	see also 15169 line
34545	FCN3	NM_003665.2	771	tgcactctgttaacgatcaaatc	174577	-	see also 15169 line
34546	GOKR	NM_001486.2	1257	tccctctctcaggaatacgata	174596	-	see also 15170 line
34547	GOKR	NM_001486.2	1258	ccctctctcaggaatacgata	174597	-	see also 15170 line
34548	GOKR	NM_001486.2	1312	ctcagagagatcgactatagt	174598	-	see also 15170 line
34549	GFPT1	NM_002056.1	158	tccctgaacgagacgagaatcc	174602	-	see also 1329 line
34550	GFPT1	NM_002056.1	1406	tactttgatgggtcttcgttact	174636	-	see also 1329 line

960

図46 (続き)

34551	GFPT1	NM_002056.1	1410	ttatgggtctgttaactgtaa	174637	-	see also 1329 line
34552	GFPT2	NM_005110.1	1244	cgttggtctacgcggcaagtgttg	174686	-	see also 3581 line
34553	GFPT2	NM_005110.1	1248	ggctacgcggcgaagtgttgagg	174687	-	see also 3581 line
34554	ITLN1	NM_017625.2	1008	agcagcagcgtggagataactga	174705	-	see also 15173 line
34555	ITLN1	NM_017625.2	879	agggtaaccggatgaacactga	174704	-	see also 15173 line
34556	ITLN2	NM_080878.2	1008	agcgagctgactctgtttctat	174719	-	see also 15174 line
34557	ITLN2	NM_080878.2	1003	aacggaggcggctgtactctgt	174718	-	see also 15174 line
34558	KLRB1	NM_002258.1	392	ctgtcaacccttggataacagt	174738	-	see also 15175 line
34559	KLRB1	NM_002258.1	556	aagtggataaacgactcttttt	174744	-	see also 15175 line
34560	KLRG1	NM_002259.2	497	gcctctgtgtgtaacgtagtgt	174757	-	see also 15176 line
34561	KLRG1	NM_002259.2	359	acctatgcgggaattaaacctca	174792	-	see also 15176 line
34562	KLRD1	NM_002262.2	718	tagcgtataatcaaatggaaat	174779	-	see also 15178 line
34563	KLRD1	NM_002262.2	711	aactgcataagctataatccaaa	174776	-	see also 15178 line
34564	KLRF1	NM_016523.1	158	gtgaogttgactgggtataaat	174786	-	see also 15179 line
34565	KLRF1	NM_016523.1	160	gacgttgacactggtataaatct	174787	-	see also 15179 line
34566	KLRG1	NM_005810.2	248	gacccgtgagatgaataatgtaa	174810	-	see also 15180 line
34567	KLRG1	NM_005810.2	575	aagtgtccctttgcagataaagc	174817	-	see also 15180 line
34568	KLRK1	NM_007360.1	606	cccttgaccggaagttactgtgg	174827	-	see also 15181 line
34569	KLRK1	NM_007360.1	604	ttcccttgaccggaagttactgt	174826	-	see also 15181 line
34570	KLRK1	NM_007360.1	863	accacaactactaacaataatg	174836	-	see also 15181 line
34571	LGALS1	NM_002305.2	367	agctgcagatggatacgaattc	174842	-	see also 15182 line
34572	LGALS1	NM_002305.2	434	agctgacggtgacttcaagatac	174845	-	see also 15182 line
34573	LGALS2	NM_006498.1	185	caacttctgtgcgaactcattgg	174848	-	see also 15183 line
34574	LGALS2	NM_006498.1	401	gtcctctttaaagttaaaagaat	174849	-	see also 15183 line
34575	LGALS4	NM_006149.2	475	gggatotgcaacttcaactcaatc	174856	-	see also 15184 line
34576	LGALS4	NM_006149.2	665	agctgaagaaccatcatcatca	174859	-	see also 15184 line
34577	LGALS7	NM_002307.1	197	caagtggagggtggttcaaca	174864	-	apoptosis
34578	LGALS8	NM_006499.2	653	caactatgacacgccttcaaaa	174870	-	see also 15185 line
34579	LGALS8	NM_006499.2	765	aggatogcccccagagaaaataga	174875	-	see also 15185 line
34580	LGALS9	NM_002308.2	832	agcgaagtctgccccgaaaatg	174886	-	see also 15186 line
34581	LGALS9	NM_002308.2	928	gtcagcacctgtttgaactactac	174888	-	see also 15186 line
34582	LLT1	NM_013269.1	109	taccttaattggcgtttatttt	174892	-	see also 15187 line
34583	LLT1	NM_013269.1	493	aggagagtgtcctatttgaatg	174903	-	see also 15187 line
34584	LMAN1	NM_005570.2	1060	agctgaaccgcggagttagatag	174931	-	see also 3869 line
34585	LMAN1	NM_005570.2	621	gtcgcagcaagaattaccattata	174917	-	see also 3869 line
34586	LMAN1L	NM_021819.1	121	ctccttaacgcaggtttgagtac	174959	-	see also 15189 line
34587	LMAN1L	NM_021819.1	122	tcctctacgcaggtttgagtaca	174960	-	see also 15189 line
34588	LMAN2	NM_006816.1	512	agcgcgtgtcccgtaactctcg	174975	-	see also 15190 line
34589	LMAN2	NM_006816.1	778	ggcgacctgtctgacaatcatga	174978	-	see also 15190 line
34590	LOC14390	NM_178834.2	484	taottotoagaagactgaactttg	174984	-	see also 15191 line
34591	LOC14390	NM_178834.2	487	ttctgaagactgaactttgagg	174985	-	see also 15191 line
34592	LPHN1	NM_014921.1	1439	ctgtacgtctggaacaactattt	175011	-	see also 15192 line
34593	LPHN1	NM_014921.1	3035	gggatogacaagactgaatga	175016	-	see also 15192 line

図46 (続き)

34594	LPHN2	NM_012302.1	744	ttcctatgtaccgatactttaa	175049	-	see also 15193 line
34595	LPHN2	NM_012302.1	2274	gtccgcaataccgtcaaacaga	175104	-	see also 15193 line
34596	LPHN2	NM_012302.1	1135	gacaaacgtgcgcatacaaatgc	175067	-	see also 15193 line
34597	LPHN3	NM_015236.1	4043	gtggaatgacacggctcgaaagc	175282	-	see also 15194 line
34598	LPHN3	NM_015236.1	2975	gagctactccaaggtacataatga	175244	-	see also 15194 line
34599	LY6G5C	NM_025282.1	65	ccctctacacggctcctttaata	175292	-	see also 15195 line
34600	LY6G5C	NM_025282.1	67	ctctacacggctcctttaatagt	175293	-	see also 15195 line
34601	LY6G5C	NM_025282.1	24	ggcgctggaccctgctatactgg	175291	-	see also 15195 line
34602	LY75	NM_002349.1	4759	ctgcaactatgtttccataaaa	175452	-	see also 1518 line
34603	LY75	NM_002349.1	1755	gagataactgggcaactgttg	175345	-	see also 1518 line
34604	MAG	NM_002361.2	1168	ggagagcgtctctatcttctgc	175476	-	see also 15197 line
34605	MAG	NM_002361.2	313	tgcattgtctgtgacttcaat	175472	-	see also 15197 line
34606	MRC2	NM_006039.1	356	ctcccgaaacggcttcaacc	175481	-	see also 15198 line
34607	MRC2	NM_006039.1	1438	gtggatcggcctcaacgattga	175491	-	see also 15198 line
34608	NALP9	NM_176820.2	887	ttggagcactcaaacactataaa	175521	-	see also 15199 line
34609	NALP9	NM_176820.2	1494	cccggtggggagatattcatgtt	175538	-	see also 15199 line
34610	NPTX2	NM_002523.1	804	gcggagcaatagcgcotttaagt	175560	-	see also 1620 line
34611	NPTX2	NM_002523.1	1306	cgcgtcttcgcgcacaagaat	175570	-	see also 1620 line
34612	NRIP3	NM_020645.1	319	ggccttaagacgcaacaaactca	175580	-	see also 15201 line
34613	NRIP3	NM_020645.1	322	cttaagacgaacaaactcaatc	175581	-	see also 15201 line
34614	OLR1	NM_002543.2	724	tcctttgatccccacttatta	175595	-	see also 15202 line
34615	OLR1	NM_002543.2	723	ctcctttgatccccacttatt	175594	-	see also 15202 line
34616	OLR1	NM_002543.2	191	gtcctttgctggagattagtagt	175586	-	see also 15202 line
34617	PLA2R1	NM_007366.2	825	gccacgacagccggttatgaag	175615	-	see also 15203 line
34618	PLA2R1	NM_007366.2	824	tgccacgacagccggttatgaaa	175614	-	see also 15203 line
34619	PRG2	NM_002728.3	461	aactcaatattattatcgaa	175727	-	see also 15204 line
34620	PRG2	NM_002728.3	455	atccaaacttaattattatga	175726	-	see also 15204 line
34621	PRG2	NM_002728.3	451	ttccatccaaacttaattatga	175725	-	see also 15204 line
34622	PRG3	NM_006093.2	450	ttggtgcggactcctaaacttt	175731	-	see also 15205 line
34623	PRG3	NM_006093.2	451	ttggtgcggactcctaaactttt	175732	-	see also 15205 line
34624	PRG3	NM_006093.2	521	ctctatcatgacttaactca	175735	-	see also 15205 line
34625	REG4	NM_032044.2	652	gtctgagatgagctccaataac	175749	-	see also 15206 line
34626	REG4	NM_032044.2	585	ttgattgattggggccatgtat	175747	-	see also 15206 line
34627	SELE	NM_000450.1	1233	cccgagcggagctacatgaattg	175772	-	see also 15207 line
34628	SELE	NM_000450.1	1232	cccgagcggagctacatgaatt	175771	-	see also 15207 line
34629	SELL	NM_000655.2	254	ttctgcggagcgaattacacaga	175787	-	see also 15208 line
34630	SELL	NM_000655.2	841	accacactgtcgaagtattcagt	175798	-	see also 15208 line
34631	SELP	NM_003005.2	1369	ccgatatgttcgggtgtgatac	175833	-	see also 15209 line
34632	SELP	NM_003005.2	555	aagcacacattgtttacacagc	175820	-	see also 15209 line
34633	SFTPD	NM_003019.2	820	gtgtcgggaggaagatttcaag	175858	-	see also 15210 line
34634	SFTPD	NM_003019.2	779	ctctcagataagaagattgagc	175857	-	see also 15210 line
34635	SIGLEC10	NM_033130.2	1783	atcggaatcacggtcttctttt	175862	-	see also 15211 line
34636	SIGLEC10	NM_033130.2	2181	ggcgattatgcagaagtcgaagt	175867	-	see also 15211 line
34637	SIGLEC10	NM_033130.2	1784	tcaggcatcacggctctcttttc	175863	-	see also 15211 line

図46 (続き)

962

34638	SIIGLEC11	NM_052884.1	518	ttcctgagcaatgagttttct	175868	-	see also 15212 line
34639	SIIGLEC11	NM_052884.1	2137	aggcttgggctcaattggaga	175871	-	see also 15212 line
34640	SIIGLEC5	NM_003830.1	893	ctgcaaaacacctatcatctcc	175872	-	-
34641	SIIGLEC5	NM_003830.1	1097	ccgctgggctctctgcaatttt	175873	-	see also 34640 line
34642	SIIGLEC5	NM_003830.1	1370	tgcaggcctggaacatctatgg	175874	-	see also 34640 line
34643	SIIGLEC6	NM_001245.2	333	tccagcctagtactatggtatg	175877	-	see also 15213 line
34644	SIIGLEC6	NM_001245.2	332	tccagcctgactatggtat	175876	-	see also 15213 line
34645	SIIGLEC6	NM_001245.2	328	acctccagctcgtactatgg	175875	-	see also 15213 line
34646	SIIGLEC7	NM_014385.1	1296	ctgagctcgtggcagatgataac	175882	-	see also 15214 line
34647	SIIGLEC8	NM_014442.1	120	cagacaataggagatggtact	175883	-	see also 15215 line
34648	SIIGLEC1	NM_033329.1	729	aggctgtcgcgactcaacatctc	175894	-	see also 15216 line
34649	SIIGLEC1	NM_033329.1	730	gggctgtcgcgactcaacatctc	175895	-	see also 15216 line
34650	SN	NM_023068.2	837	tgggggtacgctccaaacaaaga	175910	-	see also 15217 line
34651	SN	NM_023068.2	1206	ccctgtcagctggtagtcaacc	175911	-	see also 15217 line
34652	TNA	NM_003278.1	542	ccgcacgcgctacagaactgg	175937	-	see also 15218 line
34653	ZDHH19	NM_144637.2	847	agcaactggtatttaacaattg	175942	-	see also 15219 line
34654	ZDHH19	NM_144637.2	804	cagacacctcaggagatacaacc	175940	-	see also 15219 line
34655	CHIA	NM_021797.1	953	aggcgaagtctccctaactcc	175948	-	see also 15220 line
34656	CHIA	NM_021797.1	1139	gccttaccccggtgcaataaac	175950	-	see also 15220 line
34657	CHIT1	NM_003465.1	591	tggatcacaggtggacaaaatcg	175952	-	see also 15221 line
34658	CHIT1	NM_003465.1	907	gggatctggcctactatgaagt	175955	-	see also 15221 line
34659	TACR1	NM_001058.2	856	tacacogtagtgggaatcacact	175973	-	see also 650 line
34660	TACR1	NM_001058.2	501	atggtactacggcgtgtctact	175963	-	see also 650 line
34661	TACR2	NM_001057.1	624	ggcgtctcggcgtggtgtgttag	175982	-	see also 649 line
34662	TACR2	NM_001057.1	625	cgcgtcgcgtggtgtgtgttag	175983	-	see also 649 line
34663	TACR3	NM_001059.1	1364	gtcatgacagctggtttgacc	176008	-	see also 15224 line
34664	TACR3	NM_001059.1	1259	ctgggtccttctaatcaagttt	176006	-	see also 15224 line
34665	NPY1R	NM_000909.3	846	tccatcgcactctcataggtgt	176041	-	see also 15225 line
34666	NPY1R	NM_000909.3	1358	cggctctgggagtgatgattga	176048	-	see also 15225 line
34667	NPY2R	NM_000910.2	1526	aggcgttggtggtccattcactct	176076	-	see also 592 line
34668	NPY2R	NM_000910.2	1055	gggagtgattcgtgattgagatc	176066	-	see also 592 line
34669	NPY5R	NM_006174.2	193	agctcgacgagtattatacaag	176081	-	see also 4270 line
34670	NPY5R	NM_006174.2	312	ctgattggcctctatcatattgt	176089	-	see also 4270 line
34671	GPR66	NM_006056.2	412	ggcagcgcctacaaactactacc	176106	-	see also 15228 line
34672	GPR66	NM_006056.2	200	aggaaocccatggtctgcaatgg	176105	-	see also 15228 line
34673	NMU2R	NM_020167.3	1263	gtggagctgaaccgaagatatagg	176125	-	see also 15229 line
34674	NMU2R	NM_020167.3	1261	ttgtggagctgaccgaagatatga	176124	-	see also 15229 line
34675	GPR10	NM_004248.1	422	aggcgttcacgcctctatgctog	176129	-	neuropeptide Y receptor
34676	GPR10	NM_004248.1	959	ggcaactggcctccatggtctcg	176130	-	see also 34675 line
34677	GPR74	NM_004885.1	843	gtggtctaccctctttaaaccaaa	176159	-	see also 15230 line
34678	GPR74	NM_004885.1	1299	tacgtcgacctcttccaaatga	176169	-	see also 15230 line
34679	HCTR2	NM_001526.2	651	agccaacactggctggtgatga	176187	-	see also 15231 line
34680	HCTR2	NM_001526.2	463	tacctgcaccgcgaagaatatga	176182	-	see also 15231 line

図46 (続き)

963

34681	OT7T022	NM_022146.1	379	gtatggcttcggttttcacact	176219	-	see also 15232 line
34682	OT7T022	NM_022146.1	377	ctgtgtcgtggttcggttttcaca	176218	-	see also 15232 line
34683	SORCS3	NM_014978.1	1256	gtcgggtggccgggtggtgataagg	176235	-	see also 15233 line
34684	SORCS3	NM_014978.1	1457	agccagctactcgtggtcttctc	176241	-	see also 15233 line
34685	OPRM1	NM_000914.1	1309	ctcgaattcgtcagaacactaga	176334	-	see also 15234 line
34686	OPRM1	NM_000914.1	253	ctgatgccttgccgtactcaagt	176303	-	see also 15234 line
34687	OPRK1	NM_000912.2	1492	atcgatggatgaataaccagct	176354	-	see also 15235 line
34688	OPRK1	NM_000912.2	720	gagtaacgctctacttgatgaatt	176344	-	see also 15235 line
34689	OPRD1	NM_000911.2	448	tcgacatcgtccgtactcaatga	176356	-	see also 15236 line
34690	OPRD1	NM_000911.2	606	ctctccatcgactactacaatat	176359	-	see also 15236 line
34691	GPR7	NM_005285.1	949	aaactccgcccagctgataacttg	176364	-	see also 15237 line
34692	OGFR	NM_007346.2	240	acgagggacacatgtgtagtatcg	176367	-	see also 15238 line
34693	OGFR	NM_007346.2	1255	tggagaagatcgtctctgaatttg	176377	-	see also 15238 line
34694	OPCML	NM_002545.2	634	accagtcctggggaggtactcgaatgc	176387	-	see also 15239 line
34695	OPCML	NM_002545.2	207	gccaccctcaggtgtaccataga	176378	-	see also 15239 line
34696	MC2R	NM_000529.1	7	cacattatcaactcgtatgaata	176392	-	see also 15240 line
34697	MC2R	NM_000529.1	274	ctcaagccacgtggcagcttttga	176398	-	see also 15240 line
34698	MC1R	NM_002386.2	1454	cacgtgctgggtcgtcatcttcaaga	176409	-	see also 15241 line
34699	MC3R	NM_019888.2	357	ggcgcacatcgtcgttaagtgtgt	176415	-	see also 15242 line
34700	MC3R	NM_019888.2	429	gacottcggagggccagattatcc	176416	-	see also 15242 line
34701	MC4R	NM_005912.1	113	gaggggtgtacgagcaactttt	176420	-	see also 15243 line
34702	MC4R	NM_005912.1	491	agcgggttggggtcatcataagt	176436	-	see also 15243 line
34703	MC5R	NM_005913.1	862	tcctgtgatggaccctctcatata	176456	-	gpcr、 receptor activity melanocortin receptor
34704	MC5R	NM_005913.1	510	cacgggtcgtcggcattgtcttca	176454	-	see also 34703 line
34705	MC5R	NM_005913.1	298	aacaacaagcacctagtgtatgc	176451	-	see also 34703 line
34706	SSTR1	NM_001049.2	1021	gcgtggacgcgggtcaacatgttc	176459	-	see also 15244 line
34707	SSTR1	NM_001049.2	1655	cgccggagggccgggttgactatt	176466	-	see also 15244 line
34708	SSTR2	NM_001050.1	467	cccggaaggcccaagatgacacc	176478	-	see also 15245 line
34709	SSTR2	NM_001050.1	7	atggcggtgagccactcaatgg	176468	-	see also 15245 line
34710	AVPR2	NM_000054.2	914	ctcatcttcggggagattcatgc	176489	-	see also 15247 line
34711	AVPR2	NM_000054.2	358	ggcgctgctctccatagtctttg	176488	-	see also 15247 line
34712	OXTR	NM_000916.3	1695	ggagagcagagtgccagcaaaaag	176495	-	see also 15248 line
34713	OXTR	NM_000916.3	1438	cacggtcaagatgactttcatca	176493	-	see also 15248 line
34714	F2RL2	NM_004101.2	1038	atcatcggacacctaattgcata	176523	-	see also 15249 line
34715	F2RL2	NM_004101.2	1035	gccatcatcggacacttaattgc	176522	-	see also 15249 line
34716	F2RL2	NM_004101.2	1048	cacttaatgcacacttaattgc	176525	-	see also 15249 line
34717	GP1BA	NM_000173.1	634	aaactcgtatatacaataccaaa	176540	-	see also 15250 line
34718	GP1BA	NM_000173.1	626	tccaagagaactcgtctgtatata	176538	-	see also 15250 line
34719	FPRI	NM_002029.3	641	ctggaccaacgaccctaagaaga	176558	-	see also 15251 line
34720	FPRI	NM_002029.3	893	cagaatccgtggagttattgcaag	176565	-	see also 15251 line
34721	FPRL1	NM_001462.1	1208	atcgtggacacttgattttgc	176573	-	see also 15252 line
34722	FPRL1	NM_001462.1	1375	eggattatccgggtttgcaattg	176578	-	see also 15252 line
34723	FPRL2	NM_002030.3	749	ggagaggtgaacggtttcattac	176594	-	see also 15253 line

図46 (続き)

964

34724	IPRL2	NM_002030.3	475	atgaagttaattcatgtatga	176587	-	see also 15253 line
34725	GALR1	NM_001480.2	1747	ttcacacctgaattactactaaag	176613	-	see also 15254 line
34726	GALR1	NM_001480.2	1345	ggcggacccctcgccacaagaagg	176601	-	see also 15254 line
34727	AGTR1	NM_000685.3	790	cgcttcgacgcacacatcttgg	176633	-	see also 15256 line
34728	AGTR1	NM_000685.3	712	aacctgaactagtggtttct	176629	-	see also 15256 line
34729	AGTR2	NM_000686.3	459	ataggcaaacctattattctata	176661	-	see also 429 line
34730	AGTR2	NM_000686.3	453	tcctctatggcaacctattatt	176659	-	see also 429 line
34731	MAS1	NM_002377.2	275	gtctatcgaactatcttttagatt	176691	-	see also 15258 line
34732	MAS1	NM_002377.2	27	aagtgacatcatctttgttga	176687	-	see also 15258 line
34733	EDNRA	NM_001957.1	1499	aaccgatgtgaattacttagttt	176731	-	see also 15259 line
34734	EDNRA	NM_001957.1	1154	ttcgtctatggtaacctttgaata	176720	-	see also 15259 line
34735	EDNRA	NM_000115.1	632	tgcgaacacgtcccaatcttgg	176738	-	see also 97 line
34736	EDNRA	NM_000115.1	1330	ttggatttggaactatttggat	176753	-	see also 97 line
34737	CKAR	NM_000730.1	674	ctcgtactccccatttagcaac	176777	-	see also 15261 line
34738	CKAR	NM_000730.1	675	tcctgaacccatttagcaact	176778	-	see also 15261 line
34739	CKBR	NM_176875.2	701	caacggctcgcgtatgttagc	176794	-	see also 15262 line
34740	CKBR	NM_176875.2	914	atctctcgcagctctacttagg	176796	-	see also 15262 line
34741	CKBR	NM_176875.2	1486	ttcgtgtccaggcttagctaca	176799	-	see also 15262 line
34742	BKBR1	NM_000710.2	745	agcgtgtccagatctgaacatca	176804	-	see also 15263 line
34743	BKBR1	NM_000710.2	852	tggctcagatagctcttccaac	176806	-	see also 15263 line
34744	BKBR2	NM_000623.2	1263	ctcgtgtggaacgccagattaca	176821	-	see also 15264 line
34745	BKBR2	NM_000623.2	405	ctgcaaggtggcagagatctacc	176815	-	see also 15264 line
34746	BR3	NM_001727.1	682	ttgctctaccgagagctatatt	176843	-	see also 1148 line
34747	BR3	NM_001727.1	288	ttgtgtgcactatattactta	176832	-	see also 1148 line
34748	NMBR	NM_002511.1	663	cagttcccgaaggggttttcca	176862	-	see also 15266 line
34749	NMBR	NM_002511.1	693	ctcgcacagtagcttgataaat	176865	-	see also 15266 line
34750	C5R1	NM_001736.1	668	tactcagctcagcagattgttac	176897	-	see also 15267 line
34751	C5R1	NM_001736.1	665	cttactcacgcctcacgatttgt	176896	-	see also 15267 line
34752	C3AR1	NM_004054.2	982	tccttagcgtcttagcaattcc	176925	-	see also 15268 line
34753	C3AR1	NM_004054.2	981	ttccttagcgtcttagcaattcc	176924	-	see also 15268 line
34754	HCTR1	NM_001525.1	1089	ggccatcagcgtctcactatgcc	176940	-	see also 15269 line
34755	NTSR1	NM_002531.1	1065	caccgtcaaggtcgtcatcacagg	176945	-	see also 15270 line
34756	NTSR1	NM_002531.1	1371	gtggaactcgtctcactatgact	176948	-	see also 15270 line
34757	NTSR2	NM_012344.2	880	cccaagtgccgtccactctatcc	176954	-	see also 15271 line
34758	NTSR2	NM_012344.2	767	caccgcgtcccaagctttatcc	176952	-	see also 15271 line
34759	GRPR	NM_005314.1	794	ggcgtctcgtggcagacagataca	176970	-	see also 15272 line
34760	GRPR	NM_005314.1	871	ggcctcaagcgcgtttactgtg	176975	-	see also 15272 line
34761	GRPR	NM_005314.1	605	gtccatgcgaacggtccaaccc	176966	-	see also 15272 line
34762	NPR3	NM_000908.1	1439	accgaattgtagacatacaaac	177007	-	see also 15273 line
34763	NPR3	NM_000908.1	1387	cgccgaatgtcaaatatccttg	177005	-	see also 15273 line
34764	NPR3	NM_000908.1	1388	ggcgaatgtcaaatatccttgg	177006	-	see also 15273 line
34765	BRAP	NM_006768.2	327	atctcggcgtcgagaaatgaca	177014	-	see also 4773 line
34766	BRAP	NM_006768.2	768	cacaggctgagcggaatgtttt	177028	-	see also 4773 line
34767	KPNA3	NM_002267.2	1921	aggaggtaactcaaatgttgc	177084	-	see also 1454 line

図46 (続き)

965

34768	KPNA3	NM_002267.2	1654	accacccctctgttaattactgt	177078	-	see also 1454 line
34769	KPNA3	NM_002267.2	719	gacagaaatccaccgattgatga	177060	-	see also 1454 line
34770	KPNB2	NM_002270.2	1064	gacgaacacattcctgattgga	177110	-	see also 1464 line
34771	KPNB2	NM_002270.2	1088	cagatataccaccacgttttca	177111	-	see also 1464 line
34772	KPNB2	NM_002270.2	2073	agctgtatgacccgaagtaacatc	177131	-	see also 1464 line
34773	TNPO2	NM_013433.2	2391	gcctgtatcgccggattcatgc	177156	-	see also 15277 line
34774	TNPO2	NM_013433.2	2760	ggcgtgtgacgagacttattt	177157	-	see also 15277 line
34775	KDELRI	NM_006801.2	409	ttcacacacgtctgtgttgatta	177163	-	see also 15278 line
34776	KDELRI	NM_006801.2	365	cactctacaacacgtgtatgaag	177162	-	see also 15278 line
34777	KDELRI	NM_006854.2	477	ggcctctatgtcttttgc	177180	-	see also 15279 line
34778	KDELRI	NM_006854.2	259	aaggcaacctacgattggaaatca	177176	-	see also 15279 line
34779	PEX7	NM_000288.1	854	tggcctctgtctgtatgattt	177205	-	see also 253 line
34780	PXR1	NM_000319.3	579	caccgatcgctggtatgatgaat	177218	-	see also 266 line
34781	PXR1	NM_000319.3	577	gccaccgatcgctggtatgatga	177217	-	see also 266 line
34782	PXR1	NM_000319.3	580	accgatcgctggtatgatgaata	177219	-	see also 266 line
34783	SSR2	NM_003145.2	365	cacctggcacaattacttacc	177246	-	see also 2126 line
34784	SSR2	NM_003145.2	216	gacgtggaaactatctgatttc	177239	-	see also 2126 line
34785	SSR3	NM_007107.2	198	ctggcgaatatggcatatggatc	177252	-	see also 4952 line
34786	SSR3	NM_007107.2	110	agatttcaggcgcgaactctctcg	177250	-	see also 4952 line
34787	TOMM34	NM_006809.4	255	ctgcaggcgaaggtcttcaaga	177265	-	see also 15284 line
34788	TOMM34	NM_006809.4	438	aagtacactatggcctatgtga	177267	-	see also 15284 line
34789	NKTR	NM_005385.2	242	gccegtgtctgcattatgttc	177275	-	see also 3746 line
34790	NKTR	NM_005385.2	241	agccggtgtgcattatgtt	177274	-	see also 3746 line
34791	NKTR	NM_005385.2	4392	tacacctacgatgactactatag	177382	-	see also 3746 line
34792	PPIC	NM_000943.3	125	ggctcggcgcaactgtgtttct	177393	-	signal transduction
34793	PPIC	NM_000943.3	642	caccaactgctgactatcaaca	177398	-	see also 34792 line
34794	PPIC	NM_000943.3	123	gggctcggcgcaactgtgtttt	177391	-	see also 34792 line
34795	PPIH	NM_006347.2	274	tactggagtcgccagatttacc	177406	-	see also 15286 line
34796	PPIH	NM_006347.2	216	tcacacagggtcataaaggatttc	177405	-	see also 15286 line
34797	PPIH	NM_006347.2	50	aaccocgtgtgttcttctgtgt	177401	-	see also 15286 line
34798	AAMP	NM_001087.1	136	atcgaggtagtagaacttgatcc	177410	-	see also 15287 line
34799	AAMP	NM_001087.1	120	tggtagtagagagattatcgagg	177409	-	see also 15287 line
34800	APLP1	NM_005166.2	1029	tagatgacccagattatgagg	177431	-	see also 3633 line
34801	APOH	NM_000042.1	313	gcctacgctatcacgactttga	177447	-	see also 15288 line
34802	APOH	NM_000042.1	131	cagtgtgtccgttaaaaacattc	177436	-	see also 15288 line
34803	AZU1	NM_001700.3	288	ggcagtcgccccagacgtttcc	177470	-	kinase_related
34804	AZU1	NM_001700.3	292	gtccgcgacagctgttccatca	177471	-	see also 34803 line
34805	AZU1	NM_001700.3	507	cccgtttccaggtttgtcaac	177472	-	see also 34803 line
34806	COL5A1	NM_000093.2	1071	accgggacgctatgattactgt	177484	-	see also 68 line
34807	COL5A1	NM_000093.2	5840	ttoaggtagcgtcacagaaatt	177503	-	see also 68 line
34808	HBP17	NM_005130.1	543	agtagtcagctccactatatt	177518	-	see also 15290 line
34809	HBP17	NM_005130.1	394	tccaacctatgctctaaagctca	177513	-	see also 15290 line
34810	HRG	NM_000412.2	324	gtgatoaggacaattgtaaggtaat	177527	-	see also 15291 line

cyclosporin A
binding

図46 (続き)

966

34811	HRG	NM_000412.2	145	ggcgacgggagtgctaccctttc	177522	-	see also 15291 line
34812	LAMC2	NM_005562.1	1125	ctccgcacccgagctacatattg	177577	-	see also 3866 line
34813	LAMC2	NM_005562.1	2863	cccgatgcaactctgtctaaagc	177605	-	see also 3866 line
34814	LIPC	NM_000236.1	896	acgatcggtgacacattttcatc	177625	-	see also 15293 line
34815	LIPC	NM_000236.1	332	tggacggcgctgctagaaactgg	177620	-	see also 15293 line
34816	LIPC	NM_000236.1	598	atcggtggacacgacaaagatgg	177622	-	see also 15293 line
34817	LIPC	NM_000603.1	1569	cccgaggacgggagctgaatca	177666	-	see also 15294 line
34818	LIPC	NM_000603.1	1568	accgggacgggagctgaatca	177665	-	see also 15294 line
34819	LPL	NM_000237.1	973	tccacagcgctccattcatct	177691	-	see also 15295 line
34820	LPL	NM_000237.1	791	tagacgtctacacacattccac	177684	-	see also 15295 line
34821	ODZ1	NM_014253.1	3727	ctgggaaactcogttagtattt	177784	-	see also 5559 line
34822	ODZ1	NM_014253.1	6825	ggcgacgtgctcgagtgatcc	177891	-	see also 5559 line
34823	SERPINC1	NM_000488.1	1245	tgcaggtaccgctgtgtgattg	177944	-	see also 15297 line
34824	SERPINC1	NM_000488.1	831	gtcggttcaagctatctatggt	177937	-	see also 15297 line
34825	SERPINC1	NM_000488.1	682	ggcggaaaccgctgctattcc	177933	-	see also 15297 line
34826	SERPINC1	NM_000488.1	1235	aagtgcttctccgaaattcaag	177951	-	see also 15298 line
34827	SERPINC1	NM_000488.1	1133	tgtgtgtccacacaaagatgct	177950	-	see also 15299 line
34828	SERPINC1	NM_000488.1	745	tcctgtcaacgagtgatttc	177971	-	see also 15299 line
34829	SERPINC1	NM_000488.1	744	gtcctgtcaacgagtgatttc	177970	-	see also 15299 line
34830	VTN	NM_000638.2	1030	ctgctatgaactgacgaaag	177991	-	see also 15300 line
34831	VTN	NM_000638.2	1817	gaacagtgactacggagtgatct	178002	-	see also 15300 line
34832	BRAL1	NM_021817.1	877	gcaggtaccgttcaattactac	178004	-	-
34833	HAPLN3	NM_178232.2	373	ggcggtgctgctcaaatgtgg	178005	-	see also 15301 line
34834	HAPLN3	NM_178232.2	1174	ggcggtgctgctcaaatgtgg	178014	-	see also 15301 line
34835	HMMR	NM_012484.1	2008	ctccgctgaactgtgctcaaaa	178055	-	see also 15302 line
34836	HMMR	NM_012484.1	1982	gccaactcaaatcggaagtaca	178053	-	see also 15302 line
34837	IMP2	NM_016247.1	2902	gcctcaggtgactaacatgatg	178133	-	see also 6751 line
34838	IMP2	NM_016247.1	3663	aagtacaacccgctgataaag	178151	-	see also 6751 line
34839	IMP2	NM_023002.1	523	cccccggaggccgatacaagc	178155	-	see also 15304 line
34840	TNFAIP6	NM_007115.2	414	atggaatccgtctcaataggagt	178165	-	see also 15305 line
34841	TNFAIP6	NM_007115.2	235	agctaggcggtgtggaatttg	178160	-	see also 15305 line
34842	XLKD1	NM_006691.2	480	ttcgtgtgctatctctaggattag	178187	-	see also 15306 line
34843	XLKD1	NM_006691.2	405	gcgggaaaggacaaagtgaac	178185	-	see also 15306 line
34844	DSFG3	NM_004950.2	540	ttctattcccgcttcaacagaat	178209	-	see also 15307 line
34845	DSFG3	NM_004950.2	687	gtcctgcgtgacaaacaaataag	178214	-	see also 15307 line
34846	HABP2	NM_004132.2	226	tacagctcagagattataatca	178223	-	see also 15308 line
34847	HABP2	NM_004132.2	624	tgcctgtcccgaccaggtcaagg	178226	-	see also 15308 line
34848	PODLX2	NM_015720.1	618	aagcctcaggtcgtgctatttc	178252	-	see also 15309 line
34849	PODLX2	NM_015720.1	583	agctgtccctgtaaatgagatcc	178251	-	see also 15309 line
34850	PODLX2	NM_015720.1	619	agcctcaggtcgtgctgattttc	178253	-	see also 15309 line
34851	TGFB3	NM_003243.1	2535	ctcgtgacgctcctcgataatct	178299	-	see also 15310 line
34852	TGFB3	NM_003243.1	1342	gacaatggctatgctcaataac	178271	-	see also 15310 line
34853	TGFB3	NM_003243.1	2537	cgtcgagagcctcgataatctg	178300	-	see also 15310 line
34854	GABRA1	NM_000806.3	388	agctatggacagcgctcattaca	178305	-	see also 493 line

967

図46 (続き)

34855	GABRA1	NM_00806.3	644	tctccgggtaataaacctaag	178315	-	see also 493 line
34856	GABRA2	NM_00807.1	356	gaattctggatggtaacataat	178345	-	see also 15312 line
34857	GABRA2	NM_00807.1	840	tctatgctgctctaggtaaatc	178365	-	see also 15312 line
34858	GABRA3	NM_00808.2	1256	ctggttcataagccgtgtgttg	178410	-	see also 495 line
34859	GABRA4	NM_00809.2	826	aacggtatataagtaaacacatca	178434	-	see also 499 line
34860	GABRA4	NM_00809.2	1406	ggcacacctggcttacttagc	178449	-	see also 499 line
34861	GABRA5	NM_00810.2	1615	gacaaatgtcccgaatcgtatt	178482	-	see also 502 line
34862	GABRA5	NM_00810.2	1648	ttcggaacttcaacttagttta	178485	-	see also 502 line
34863	GABRA5	NM_00810.2	916	agctatgctaccctaatctga	178466	-	see also 502 line
34864	GABRA6	NM_00811.1	689	atatacacaggtgaataacgtta	178507	-	see also 503 line
34865	GABRA6	NM_00811.1	693	aacacaggtgaataacgttaaat	178508	-	see also 503 line
34866	GABRA6	NM_00811.1	987	ttcgagctgtcaactactttac	178516	-	see also 503 line
34867	GABRB1	NM_00812.2	1171	gtgagcgcacaggttaacattct	178552	-	see also 504 line
34868	GABRB2	NM_00813.1	1567	ttcacgactgtcaactacttttc	178541	-	see also 504 line
34869	GABRB2	NM_00813.1	1567	atcggtgtgtccgcatacttctc	178597	-	see also 508 line
34870	GABRB2	NM_00813.1	1474	aacgacatgtggcgcaaaagaaa	178595	-	see also 508 line
34871	GABRB3	NM_00814.3	895	gcctctatactgataacgattc	178608	-	see also 511 line
34872	GABRB3	NM_00814.3	894	tgcctctatactgataacgatt	178607	-	see also 511 line
34873	GABRB3	NM_00814.3	1249	atcgctggaagttcaaatgaaa	178612	-	see also 511 line
34874	GABRD	NM_00815.2	563	ctggagagctagcggttactcattc	178619	-	see also 15318 line
34875	GABRD	NM_00815.2	77	cggcgaccacagagcgatgaatga	178617	-	see also 15318 line
34876	GABRE	NM_004961.2	1184	tccgcaatcctgatacaatagc	178654	-	see also 15319 line
34877	GABRE	NM_004961.2	1183	ctcggccatcctgatacaatag	178653	-	see also 15319 line
34878	GABRG1	NM_173536.2	577	tctataatgtgtgttctggaattt	178683	-	see also 15320 line
34879	GABRG1	NM_173536.2	582	atcgctgtctggaattggaatt	178684	-	see also 15320 line
34880	GABRG2	NM_00816.2	594	gtccagtgacgctatcaatag	178716	-	see also 512 line
34881	GABRG2	NM_00816.2	849	atgctgagtgccaattacaattg	178724	-	see also 512 line
34882	GABRG3	NM_033223.1	242	gaccgtaattgacgtgacattt	178754	-	see also 9381 line
34883	GABRG3	NM_033223.1	162	gacaccgacgtgactcttattct	178752	-	see also 9381 line
34884	GABRP	NM_014211.1	989	gagtgacgacccgtgttataatg	178786	-	see also 15323 line
34885	GABRP	NM_014211.1	794	agcggattttcaactagtcacc	178783	-	see also 15323 line
34886	GABRQ	NM_018558.1	368	ttcacgcttagcactactatgaga	178810	-	see also 1524 line
34887	GABRQ	NM_018558.1	724	tcttggaaggagcagattactagc	178820	-	see also 1524 line
34888	GABRR1	NM_002042.2	1367	atcgacacccacgcacattgataa	178872	-	see also 15325 line
34889	GABRR1	NM_002042.2	114	aagtcacacgagatgtctaaagaaa	178850	-	see also 15325 line
34890	GABRR2	NM_002043.1	1359	aaggccacagcgggttttcgtat	178877	-	see also 15326 line
34891	GABRR2	NM_002043.1	382	ccctgtactctgcggtactactgg	178874	-	see also 15326 line
34892	GABRR2	NM_002043.1	715	atgggatgaatcctcaaaaaca	178876	-	see also 15326 line
34893	GABBR1	NM_001470.1	1116	ccctaccgggtgaactcttttg	178887	-	see also 1017 line
34894	GABBR1	NM_001470.1	1743	gacattaccgacccaactatacc	178904	-	see also 1017 line
34895	GABBR1	NM_001470.1	1119	taccgctggaactctttgaaa	178888	-	see also 1017 line
34896	CHRM1	NM_000738.2	1292	ctccgaagtggtgatcaagatgc	178924	-	see also 479 line
34897	CHRM1	NM_000738.2	1354	ccccacggagctcccaaataca	178925	-	see also 479 line
34898	CHRM2	NM_000739.1	1003	gactcatgtaccaccaactaatc	178947	-	see also 15329 line

図46 (続き)

968

34899	CHRM2	NM_000739.1	158	acctcaagaccgtcaacaattac	17932	-	see also 15329 line
34900	CHRM3	NM_000740.1	90	cccggaacccgtcaactcatctcg	17956	-	see also 15330 line
34901	CHRM3	NM_000740.1	1721	agcagagacagctcggtcatttt	17897	-	see also 15330 line
34902	CHRM3	NM_000740.1	368	atctgttaacgaactacatcatc	17964	-	see also 15330 line
34903	CHRM5	NM_012125.2	1673	cacatggaccgccgtataacatca	17990	-	see also 15331 line
34904	CHRM5	NM_012125.2	1455	ttccgatttgggtgaagaagctga	17985	-	see also 15331 line
34905	CHRM5	NM_012125.2	1602	aagagagtgctcgtactagcaaga	17987	-	see also 15331 line
34906	CHRNA1	NM_000079.1	122	cccgctgtgtggaagctattt	17893	-	see also 15332 line
34907	CHRNA1	NM_000079.1	317	atgaactatggcgggtgtaaaaaa	17899	-	see also 15332 line
34908	CHRNA1	NM_000079.1	261	aaccaatgtgctctgaaacagc	17895	-	see also 15332 line
34909	CHRNA2	NM_000742.1	2120	tccgttctctagctggaatgctct	17901	-	see also 15333 line
34910	CHRNA2	NM_000742.1	1741	agctcagccctcttataactgg	17909	-	see also 15333 line
34911	CHRNA3	NM_000743.2	1303	tacgggtgcgcgagctcctaaatct	17902	-	see also 15334 line
34912	CHRNA3	NM_000743.2	1439	acctcagcagaagctctagtctct	17903	-	see also 15334 line
34913	CHRNA3	NM_000743.2	730	tacgataaaggcgaataatgatct	17902	-	see also 15334 line
34914	CHRNA4	NM_000744.2	359	aactctctccggttaacaacag	17904	-	see also 15335 line
34915	CHRNA4	NM_000744.2	1340	ggctatcagtcctcatgcataag	17904	-	see also 15335 line
34916	CHRNA5	NM_000745.2	1351	ctcgattctattcgctacattac	17908	-	see also 15336 line
34917	CHRNA5	NM_000745.2	1208	cgccttctggtcgcgaagatatt	17907	-	see also 15336 line
34918	CHRNA6	NM_004198.2	762	tgcggatgttttacacagtaaat	17910	-	see also 15337 line
34919	CHRNA6	NM_004198.2	763	gcgcagtttttacacagtaaat	17911	-	see also 15337 line
34920	CHRNA7	NM_000746.2	315	ttggacagatacactattacagt	17912	-	see also 480 line
34921	CHRNA1	NM_000747.1	1255	ccctgatctgcggcgatttatcg	17915	-	see also 15339 line
34922	CHRNA1	NM_000747.1	1254	ccctgatctgcggcgatttatcg	17915	-	see also 15339 line
34923	CHRNA1	NM_000747.1	1191	tcgggaagccgcgaagtgatttt	17915	-	see also 15339 line
34924	CHRNA2	NM_000748.1	640	atgtacagagtgctctcttattc	17916	-	see also 15340 line
34925	CHRNA2	NM_000748.1	721	agcgcatacgaagtggaagtaaa	17916	-	see also 15340 line
34926	CHRNA4	NM_000750.1	782	acgtgacttaagctctcatcatc	17917	-	see also 15341 line
34927	CHRNA4	NM_000750.1	456	gcctgacatcgctgtttacaaca	17916	-	see also 15341 line
34928	CHRNA4	NM_000751.1	385	ctcctgcaacgtgctgtctacc	17917	-	see also 15342 line
34929	CHRNA4	NM_000751.1	1317	ctgttgatggggcaaaccttaatt	17917	-	see also 15342 line
34930	CHRNA4	NM_00080.2	1124	ggcgtcgtcgtgggcttattgc	17919	-	see also 49 line
34931	CHRNA10	NM_020402.2	957	ggcgtcgtcgtgggagagctactaca	17920	-	see also 15344 line
34932	CHRNA10	NM_020402.2	415	gaacatgactctatacaaacgc	17920	-	see also 15344 line
34933	CHRNA10	NM_020402.2	959	cgcctcactgggaagctactacatg	17920	-	see also 15344 line
34934	CHRNA9	NM_017581.1	292	cacgtggagccagagactcagctacg	17922	-	see also 15345 line
34935	CHRNA9	NM_017581.1	355	gagccagacaactcgtcttatata	17922	-	see also 15345 line
34936	CHRNA3	NM_000749.2	1180	atcatgtgagctgcctactatcc	17927	-	see also 15346 line
34937	CHRNA3	NM_000749.2	195	aactcaatcgcgaaatgaaga	17925	-	see also 15346 line
34938	GLRA1	NM_000171.1	1039	tgggttaactacctgattcagatg	17929	-	see also 15347 line
34939	GLRA1	NM_000171.1	1040	gggttactacctgattcagatg	17929	-	see also 15347 line
34940	GLRA3	NM_006529.1	736	ctcgcgtacagtgaaatcctga	17931	-	see also 4563 line
34941	GLRA3	NM_006529.1	731	ccgcctcgcgtacagtgaaat	17931	-	see also 4563 line
34942	GLRB	NM_000824.2	757	tacacaactgattgattacgatt	17935	-	see also 522 line

969

図46 (続き)

34943	GLRB	NM_000824.2	930	gagcagcgtcgagcttttacatga	179363	-	see also 522 line
34944	HTR3C	NM_130770.1	107	ggcgaagctttttaccatcaattg	179384	-	see also 15350 line
34945	HTR3C	NM_130770.1	103	aagagcgcgagctttttaccatca	179383	-	see also 15350 line
34946	HTR3C	NM_130770.1	445	ttccggtctactgctctatca	179394	-	see also 15350 line
34947	C20orf79	NM_178483.1	339	gtggaccattgatctgaagaatg	179409	-	see also 15351 line
34948	C20orf79	NM_178483.1	106	gaacatcaaccacaaagatcaaaagc	179406	-	see also 15351 line
34949	HSD17B4	NM_000414.1	1268	ggagcagcagctactagagatttat	179443	-	see also 15352 line
34950	HSD17B4	NM_000414.1	2028	tgaggctaaagtgactattgacc	179462	-	see also 15352 line
34951	STOML1	NM_004809.3	320	caactacgagcgagctattgt	179468	-	see also 3343 line
34952	STOML1	NM_004809.3	318	ccacactaagagcgagctattgt	179467	-	see also 3343 line
34953	STOML1	NM_004809.3	95	ggcgctgcccctgggtgattttg	179463	-	see also 3343 line
34954	ALDH1A1	NM_000689.3	272	tgagatcccgctggcgctactatgg	179479	-	see also 15354 line
34955	ALDH1A1	NM_000689.3	476	ggcgccgtacaatacccaattgatg	179493	-	see also 15354 line
34956	SCGB2A1	NM_002407.1	158	accataaattccgacatctctat	179529	-	see also 15355 line
34957	SCGB2A1	NM_002407.1	161	atcaattccgacatctctatacc	179530	-	see also 15355 line
34958	SCGB2A1	NM_002407.1	263	ctoaaccagctacatagaactct	179534	-	see also 15355 line
34959	SHBG	NM_001040.2	660	atcaaatcccgagctattctcc	179542	-	see also 15356 line
34960	SHBG	NM_001040.2	233	ggcgacccagagggagtgattttt	179539	-	see also 15356 line
34961	OSBP	NM_002556.2	1255	aacgaacagagccacactctttag	179550	-	see also 15357 line
34962	OSBP	NM_002556.2	1259	aagagccacactcttttagata	179552	-	see also 15357 line
34963	OSBPL5	NM_020896.2	995	ttccctggagacagctgacttt	179587	-	see also 8019 line
34964	PGRMC2	NM_006320.1	423	ggcggtccataggaattttg	179595	-	see also 15360 line
34965	PGRMC2	NM_006320.1	524	cagatttgatgcagctacaaatg	179596	-	see also 15360 line
34966	SCGB2A2	NM_002411.1	211	gacgaacatgccactacaaatgc	179601	-	see also 15361 line
34967	SCGB2A2	NM_002411.1	314	atgacagcagcttttgattta	179604	-	see also 15361 line
34968	SERPINA6	NM_001756.2	925	cactgagccggagacacagattaac	179610	-	see also 15362 line
34969	SERPINA6	NM_001756.2	1208	gcctatctctgcttttaacc	179615	-	see also 15362 line
34970	SERPINA6	NM_001756.2	1199	gaagtcacagcctatctctg	179614	-	see also 15362 line
34971	STE	NM_005420.2	660	aagagtcacagctgactattct	179629	-	see also 15363 line
34972	STE	NM_005420.2	830	cacaacactgccagacgaattta	179635	-	see also 15363 line
34973	TTR	NM_000371.1	92	tacgggacccggggaatccaagt	179640	-	see also 15364 line
34974	TTR	NM_000371.1	149	agcgagctcctgccatcaatgagg	179641	-	see also 15364 line
34975	DKFZp547H025	NM_020161.1	478	gagaacaagaagccacaagattc	179648	-	see also 15365 line
34976	FOLR1	NM_000802.2	259	ttctacctatagattcaact	179653	-	see also 15366 line
34977	FOLR1	NM_000802.2	397	gcgaagaagcggagctactgaacg	179654	-	see also 15366 line
34978	FOLR2	NM_000803.2	616	ctggaccctcaggaggttaacaagt	179657	-	see also 492 line
34979	FOLR3	NM_000804.2	761	ccgctctgctgggattattgatt	179661	-	see also 15367 line
34980	FOLR3	NM_000804.2	759	gccccgtctcgtggattatga	179660	-	see also 15367 line
34981	FTCD	NM_006657.1	58	tgaatgcgtcccaacttttgc	179664	-	see also 15368 line
34982	FTCD	NM_006657.1	57	gtggaatgcgtcccaacttttc	179663	-	see also 15368 line
34983	GNMT	NM_018960.2	93	cgggcgtgtggcagctgtatc	179666	-	see also 15369 line
34984	GNMT	NM_018960.2	708	atggctctctggtctgagtaag	179675	-	see also 15369 line
34985	SLC19A1	NM_003056.2	1742	ttcgagggtcaacagctttttgc	179682	-	-

970

図46 (続き)

34986	SLC19A1	NM_003056.2	1827	tcgcgaagcaggtccagttatc	179683	-	see also 34985 line
34987	SLC19A1	NM_003056.2	2287	tccaaagcagcgggttcgaatg	179684	-	see also 34985 line
34988	SLC19A2	NM_006996.1	514	gactactccgtataaacctgt	179690	-	see also 4881 line
34989	SLC19A2	NM_006996.1	1238	gtggcgtgagagccggttcaac	179714	-	see also 4881 line
34990	SLC19A3	NM_025243.2	560	ctggcgaaacatgtctactttta	179753	-	see also 8887 line
34991	SLC19A3	NM_025243.2	561	tggcgaacatgtctacttttac	179754	-	see also 8887 line
34992	RPB4	NM_006744.2	310	ggcccgagtcgctctttgaata	179779	-	transporter
34993	RPB4	NM_006744.2	311	ggcccgagtcgctctttgaataa	179780	-	see also 34992 line
34994	RPB4	NM_006744.2	653	tactcgatggcagatcagaag	179784	-	see also 34992 line
34995	RLBP1	NM_000326.3	822	ctctctatgtaggacaagtatgg	179785	-	see also 275 line
34996	RLBP1	NM_000326.3	1102	tcacccagccatggtactcac	179789	-	see also 275 line
34997	SLC5A6	NM_021095.1	669	accgatttgggaccccaatattgg	179794	-	see also 15373 line
34998	SLC5A6	NM_021095.1	786	acctggagcttcgattcaataaa	179796	-	see also 15373 line
34999	SLC5A6	NM_021095.1	788	ctggagcttcgattcaataaac	179797	-	see also 15373 line
35000	TTPA	NM_000370.1	213	ggcctggcaggttactaaaaact	179811	-	see also 15374 line
35001	TTPA	NM_000370.1	432	cacatccgagcttattgtacagg	179823	-	see also 15374 line
35002	TTPA	NM_000370.1	430	atcacatccgagcttattgtaca	179822	-	see also 15374 line
35003	FKBP3	NM_002013.2	727	gaggttcacacaaataatactaa	179846	-	see also 1291 line
35004	FKBP3	NM_002013.2	904	aaggttcgaggttaggcaagtatt	179852	-	see also 1291 line
35005	FKBP4	NM_002014.2	522	cccaatgccacgcttattgttg	179860	-	see also 15376 line
35006	FKBP4	NM_002014.2	597	cggatcatttcgagacatacaga	179863	-	see also 15376 line
35007	FKBP5	NM_004117.2	737	accacgacattccattgggaatt	179882	-	see also 2782 line
35008	FKBP5	NM_004117.2	1358	acgagcggcagcccgagatatac	179894	-	see also 2782 line
35009	FKBP6	NM_003602.2	601	accttttcgagcaatcgttttc	179901	-	see also 15378 line
35010	FKBP6	NM_003602.2	625	atgatgccaaagttagatataaa	179902	-	see also 15378 line
35011	PPID	NM_005038.1	434	atgatcgggaggtttacttgcgc	179921	-	see also 15379 line
35012	PPID	NM_005038.1	898	aagctgaacctatagctttaag	179934	-	see also 15379 line
35013	OPRS1	NM_005866.2	663	ctcaccctcttactactcttcg	179947	-	receptor activity
35014	APOL5	NM_030642.1	387	cactcacgaggttcttaccaga	179950	-	see also 15380 line
35015	APOL5	NM_030642.1	1098	tcgaggatcccggtgtgttaaac	179964	-	see also 15380 line
35016	ANKRA2	NM_023039.2	1142	ggctactctgtatcgaacaagaaa	179976	-	see also 15381 line
35017	ANKRA2	NM_023039.2	1145	tactgtatgaacaagaagaaatg	179977	-	see also 15381 line
35018	SCARF1	NM_003693.2	1824	ttcggcggaaggttaccagattgc	179994	-	see also 15382 line
35019	SCARF1	NM_003693.2	2310	cccaactcagccccaagagctgg	179998	-	see also 15382 line
35020	PTGDS	NM_000954.5	534	gaccccaaggctgtgattaaagg	179999	-	transporter
35021	PTGDS	NM_000954.5	611	tcctgcccaaaaccgataagtcg	180001	-	see also 35020 line
35022	PTGDS	NM_000954.5	537	cccgagggtctgattaaaggaga	180000	-	see also 35020 line
35023	LAG3	NM_002286.4	1781	tggcaccagaagcagttttctgc	180012	-	see also 15383 line
35024	LAG3	NM_002286.4	1278	ctggagacaatggcgactttacc	180006	-	see also 15383 line
35025	LILRA3	NM_006865.2	1114	ggggatgcacacttctcttttg	180014	-	see also 15384 line
35026	SLAMF1	NM_003037.1	405	atctaggagatcgtacaaagttt	180022	-	see also 15385 line
35027	SLAMF1	NM_003037.1	922	agtaaaacgaaccattaccaga	180032	-	see also 15385 line
35028	VPREB1	NM_007128.2	229	tgtctgagatatcttcacaatca	180036	-	-
35029	HSPC182	NM_014188.1	209	tcccgacaagcccaatgtttatg	180038	-	-

図46 (続き)

971

35030	HSPC182	NM_014188.1	208	ctccgacaaagcccaatgtttat	180037	-	see also 35029 line
35031	HSPC182	NM_014188.1	210	cccgacaagcccaatgtttatga	180039	-	see also 35029 line
35032	OTC	NM_000531.3	1260	gcggatgtgtgtgaaccaagt	180065	-	see also 402 line
35033	PP591	NM_025207.2	1254	gaggtataatctgcagatgttg	180083	-	see also 15387 line
35034	PP591	NM_025207.2	837	ctgggcagcaactactatcagg	180077	-	see also 15387 line
35035	DIO1	NM_000792.2	176	gccacgacaactggataccaac	180086	-	see also 15388 line
35036	DIO1	NM_000792.2	676	atctctcaagggttaactctg	180097	-	see also 15388 line
35037	DIO1	NM_000792.2	181	gacaactggataccacacctttt	180087	-	see also 15388 line
35038	DIO2	NM_000793.2	1033	ggctgaccgatggacaataacg	180104	-	see also 15389 line
35039	DIO2	NM_000793.2	403	ggcactctcagctgtagacttgc	180098	-	see also 15389 line
35040	SELENBP1	NM_003944.2	595	ctgcaccgttgggtatgacttc	180110	-	see also 15390 line
35041	SELENBP1	NM_003944.2	717	taaggagaccacttatatgtatg	180117	-	see also 15390 line
35042	15.Sep	NM_004261.2	423	aactgagcattctcaaatggaac	180125	-	see also 15391 line
35043	15.Sep	NM_004261.2	298	ccctcaagtcgaagctttgtta	180122	-	see also 15391 line
35044	SEPP1	NM_005410.1	245	aagacctgcggagaaactgaag	180131	-	see also 15392 line
35045	SEPP1	NM_005410.1	450	tagatggccgctgtgtatctc	180138	-	see also 15392 line
35046	ERAF	NM_016633.1	74	ggctctctttaaggccaataagg	180167	-	see also 15393 line
35047	ERAF	NM_016633.1	193	tggagagctgagtgaaactctac	180169	-	see also 15393 line
35048	HPR	NM_020995.2	37	tggggagacacagctttttgcaat	180172	-	see also 15395 line
35049	HPR	NM_020995.2	731	ctgtgctgacgaatacagctgc	180175	-	see also 15395 line
35050	OBP2A	NM_014582.1	360	gacggacgactactgttttact	180179	-	see also 15395 line
35051	PLUNC	NM_016583.2	464	caccatccctctcggcataaagc	180182	-	see also 15396 line
35052	PLUNC	NM_016583.2	777	atcaacctgtgtgcatgacattgt	180188	-	see also 15396 line
35053	TLR4	NM_003286.2	1114	ctctagaaggcctgtgcaatttg	180215	-	see also 15397 line
35054	TLR4	NM_003286.2	1150	tcggattagcactatgactac	180218	-	see also 15397 line
35055	NOP5/NO P58	NM_015934.3	588	gtctcgatatagattgaagtta	180303	-	see also 6576 line
35056	NOP5/NO P58	NM_015934.3	580	cacagcctgtctcgatatagatt	180300	-	see also 6576 line
35057	AKR1C2	NM_001354.3	131	gcgctcaaatggcaatagaagc	180328	-	see also 15399 line
35058	AKR1C2	NM_001354.3	168	ttgattctgcacatgtttacaat	180329	-	see also 15399 line
35059	ALOX5AP	NM_001629.2	329	tactggactgatactgttttg	180332	-	see also 15400 line
35060	ALOX5AP	NM_001629.2	198	ttccagaggaccgggaacacttgc	180331	-	see also 15400 line
35061	AMBP	NM_001633.2	329	ttcaatatctctcgatctatag	180337	-	see also 1082 line
35062	AMBP	NM_001633.2	505	gacgtctggagcttatgagaaaa	180339	-	see also 1082 line
35063	CGI-69	NM_016016.1	783	agcctgtactgtgttcaactatg	180356	-	see also 15402 line
35064	CGI-69	NM_016016.1	782	cagccctgtactgtgttcaactat	180355	-	see also 15402 line
35065	CNK2	NM_014927.1	2588	cacgacctccctcgatgagttgc	180419	-	see also 6096 line
35066	CRP	NM_000567.1	205	ccctcaaaagcaccgttaacgaag	180441	-	see also 15403 line
35067	CRP	NM_000567.1	175	ttcccaaaagagtggtatactcc	180440	-	see also 15403 line
35068	DKFZP434 N1235	NM_031291.1	577	aaccggattaggtgtcgatattg	180461	-	see also 9004 line
35069	DKFZP434 N1235	NM_031291.1	578	accggattaggtgtcgatattgg	180462	-	see also 9004 line

図46 (続き)

972

35070	DKFZp547 P234	NM_153045.2	1223	cacacgaactctccgagaattcc	180500	-	see also 15405 line
35071	DKFZp547 P234	NM_153045.2	417	ttctcggattgacaatacctgt	180490	-	see also 15405 line
35072	DOC2A	NM_003586.1	521	gcctgtaaggcccaataagctaaa	180503	-	see also 15406 line
35073	DOC2A	NM_003586.1	523	ctgtaaggcccaataagctaaaa	180504	-	see also 15406 line
35074	FLJ10618	NM_018155.1	763	ctggtatcatcagagactgtttatc	180527	-	see also 15407 line
35075	FLJ10618	NM_018155.1	695	atggttctgtaaggtatcaca	180523	-	see also 15407 line
35076	FLJ12687	NM_024917.4	2045	ccctgcccgaactgattacaag	180568	-	see also 8805 line
35077	FLJ12687	NM_024917.4	1373	tggcgaagtactatgaagtattc	180550	-	see also 15409 line
35078	FLJ20551	NM_017875.1	607	tgtttcgcacggagagctttttg	180578	-	see also 15409 line
35079	FLJ20551	NM_017875.1	428	cacggtggaaacgcttatgttac	180577	-	see also 3613 line
35080	GIF	NM_005142.2	1165	atcaacaatatcgaggaaaattgt	180634	-	see also 3613 line
35081	GIF	NM_005142.2	795	tacggatgatgatactaatgaga	180613	-	see also 15411 line
35082	HEBP1	NM_015987.2	536	cagtgacaaaagcgttaagattg	180642	-	see also 15411 line
35083	HEBP1	NM_015987.2	293	ggcctgtgaagcggcacaatttg	180639	-	see also 15412 line
35084	HPX	NM_000613.1	241	tgggacccggaggttaattcaga	180645	-	see also 15412 line
35085	HPX	NM_000613.1	597	ctgcttcgaaggtgaaccaattcc	180649	-	see also 15412 line
35086	LOC15332	NM_145282.1	280	gagtagttcggctttctcaagg	180657	-	see also 15413 line
35087	LOC15332	NM_145282.1	345	tgggtttgggtctctcagtaac	180658	-	see also 15413 line
35088	LOC20342	NM_145305.1	606	gcgcctacacgcgaattgtgttc	180660	-	-
35089	LOC20342	NM_145305.1	608	cgctacacgcgaattgtgttc	180661	-	-
35090	LOC20342	NM_145305.1	1154	agccaattactgaagatagttc	180662	-	see also 35088 line
35091	LOC28313	NM_182556.1	485	ccggttgacacttaaaagctcc	180666	-	see also 15414 line
35092	LOC28313	NM_182556.1	1177	accttctcagctacggaattct	180670	-	see also 15414 line
35093	LOC91137	NM_138773.1	438	gcgcgaatgtcaggttaattac	180675	-	see also 9630 line
35094	LOC91137	NM_138773.1	1104	cacgcacaataatgacaataca	180689	-	see also 9630 line
35095	LUZP1	NM_033631.1	1879	gaacacacgaacgttagtgaca	180724	-	see also 9429 line
35096	LUZP1	NM_033631.1	397	cagccgcacactgcggtttaagc	180697	-	see also 9429 line
35097	MCFP	NM_018843.1	943	tgggtctctactggtttcttaga	180783	-	see also 7599 line
35098	MCFP	NM_018843.1	563	ggggcaacaaactatggtataag	180772	-	see also 7599 line
35099	MFTC	NM_030780.2	924	aaggatgaggtgagttttacaag	180825	-	see also 8944 line
35100	MFTC	NM_030780.2	637	aggtgtgctgggtattataaag	180815	-	see also 8944 line
35101	MSCP	NM_016612.1	359	agggcgtcaacgtcatgatactg	180836	-	see also 15419 line
35102	MSCP	NM_016612.1	550	agcgttgacagatgatacaactg	180840	-	see also 15419 line
35103	MTCH1	NM_014341.1	492	gactcggggtgagcagatgaagagg	180850	-	see also 15420 line
35104	MTCH1	NM_014341.1	870	ggccatcgggagctataccaagt	180856	-	see also 15420 line
35105	MTCH1	NM_014341.1	497	gggttagcatgaagaaggttttc	180851	-	see also 15420 line
35106	NALP14	NM_176822.2	2163	ccctgatggtgttcaggatattct	180902	-	see also 15421 line
35107	NALP14	NM_176822.2	3221	gagtagcaatcacacttaattc	180932	-	see also 15421 line
35108	SEC14L1	NM_003003.1	610	tcgaatgggtggtcatcattatga	180937	-	see also 2015 line
35109	SEC14L1	NM_003003.1	1639	acgctggttagtccgttcattga	180952	-	see also 2015 line
35110	SFRS16	NM_007056.1	2047	cccgatacagtcggagaatacagc	180988	-	see also 15423 line
35111	SFRS16	NM_007056.1	2045	cccccgatacagtcggagaataca	180987	-	see also 15423 line

図 46 (続き)

973

35112	SFRS16	NM_007056.1	413	gtcggacgaacgaagtgttaact	180977	-	see also 15423 line
35113	SLC25A1	NM_005984.1	393	ggcagtcagtttggaattgttg	180989	-	see also 15424 line
35114	SLC25A1	NM_005984.1	811	aacactctctggtgtgattaa	180990	-	see also 15424 line
35115	SLC25A10	NM_012140.3	402	ggctcgtcgaagcgttgatgtgg	180993	-	dicarboxylic acid transporter
35116	SLC25A10	NM_012140.3	884	caccgtgtcacttttgtgttc	180995	-	see also 35115 line
35117	SLC25A10	NM_012140.3	885	accgtgtcacttttgtgttc	180996	-	see also 35115 line
35118	SLC25A14	NM_003951.2	600	ttcgtagaacgtttgaagaatga	181025	-	see also 2699 line
35119	SLC25A14	NM_003951.2	979	tggatcgaactcgtcgtatgaac	181042	-	see also 2699 line
35120	SLC25A15	NM_014252.1	616	gtgtgtgtgtcgtcgtcgtatga	181057	-	see also 15427 line
35121	SLC25A15	NM_014252.1	618	gtgtgtgtgtcgtcgtcgtatga	181058	-	see also 15427 line
35122	SLC25A15	NM_014252.1	893	aacaggcaggtattatcagaacc	181062	-	see also 15428 line
35123	SLC25A16	NM_152707.2	1241	gactgtcgtcgaatgaacttag	181092	-	see also 15428 line
35124	SLC25A16	NM_152707.2	1239	gtgactgtcgtcgaatgaacttag	181091	-	see also 15428 line
35125	SLC25A17	NM_006358.2	807	ctgcagcgtcgtcgtcgtcgt	181122	-	see also 15429 line
35126	SLC25A17	NM_006358.2	830	gagatttggcgtcgtcgtcgt	181124	-	see also 15429 line
35127	SLC25A18	NM_031481.1	1384	ttgtcgaagggtcgtcgtcgt	181139	-	see also 15430 line
35128	SLC25A18	NM_031481.1	1414	gagagcgtcgtcgtcgtcgt	181142	-	see also 15431 line
35129	SLC25A19	NM_021734.3	708	cacgcgtgtgggaccgtcgt	181151	-	see also 15431 line
35130	SLC25A19	NM_021734.3	329	cagtcctcgtcgtcgtcgtcgt	181144	-	see also 15431 line
35131	SLC25A2	NM_031947.1	215	ttgcctcgtcgtcgtcgtcgt	181157	-	see also 15432 line
35132	SLC25A2	NM_031947.1	466	gtcgtgaagggtcgtcgtcgt	181159	-	see also 15432 line
35133	SLC25A20	NM_000387.2	422	ctcctggagaacgggtcgtcgt	181172	-	see also 15433 line
35134	SLC25A20	NM_000387.2	524	ttggatcgtcgtcgtcgtcgt	181174	-	see also 15433 line
35135	SLC25A21	NM_030631.1	452	accgatcgtcgtcgtcgtcgt	181187	-	see also 15434 line
35136	SLC25A21	NM_030631.1	804	ttcaggcgtcgtcgtcgtcgt	181194	-	see also 15434 line
35137	SLC25A26	NM_173471.1	329	aggttgtatcgtcgtcgtcgt	181207	-	see also 15435 line
35138	SLC25A26	NM_173471.1	330	gggttgtatcgtcgtcgtcgt	181208	-	see also 15435 line
35139	SLC25A27	NM_004277.2	302	cccgagcgtcgtcgtcgtcgt	181215	-	see also 15436 line
35140	SLC25A27	NM_004277.2	519	gagtgaacacccgtcgtcgt	181218	-	see also 15436 line
35141	SLC25A28	NM_031212.2	1404	ttcaggacgttatacgaatga	181228	-	see also 8991 line
35142	SLC25A28	NM_031212.2	1448	aggggtcgtcgtcgtcgtcgt	181230	-	see also 8991 line
35143	SLC25A3	NM_002635.1	520	ctcgtggtcgtcgtcgtcgt	181242	-	see also 15438 line
35144	SLC25A3	NM_002635.1	599	ctgctaagggtcgtcgtcgt	181244	-	see also 15438 line
35145	SLC25A4	NM_001151.1	671	ttcttggaggtcgtcgtcgt	181271	-	see also 15439 line
35146	SLC25A4	NM_001151.1	111	atcacgcttggaggtcgtcgt	181265	-	see also 15439 line
35147	SLC25A5	NM_001152.1	670	ttcttcggaggtcgtcgtcgt	181277	-	see also 15440 line
35148	SLC39A1	NM_014437.3	1354	ggcaggtcgtcgtcgtcgt	181279	-	-
35149	SLC40A1	NM_014585.3	1652	atccgatcgtcgtcgtcgt	181311	-	see also 5765 line
35150	SLC40A1	NM_014585.3	2083	ttcttcgggtcgtcgtcgt	181327	-	see also 5765 line
35151	TCN1	NM_001062.2	387	ttcttcgggtcgtcgtcgt	181341	-	see also 15442 line
35152	TCN1	NM_001062.2	558	atgctgtcgtcgtcgtcgt	181352	-	see also 15442 line
35153	TCN2	NM_000355.2	1281	ttcttcgggtcgtcgtcgt	181384	-	see also 15443 line
35154	TCN2	NM_000355.2	772	gtctgaagcgtcgtcgtcgt	181378	-	see also 15443 line

図46 (続き)

35155	TNC	NM_002160.1	6408	gacgcgagaaactctacaaac	181459	-	see also 1385 line
35156	TNC	NM_002160.1	5559	gggtacacccctccatgttaact	181451	-	see also 1385 line
35157	TNC	NM_002160.1	3348	ttgacgcgtacgcctccatattac	181415	-	see also 1385 line
35158	UCP1	NM_021833.3	578	ctcgtacacggggacttaaat	181479	-	see also 15445 line
35159	UCP1	NM_021833.3	267	gaagtcacgtgtattagatata	181472	-	see also 15445 line
35160	UCP2	NM_003355.2	488	tgctaaagtcgggtacagatcc	181502	-	see also 2261 line
35161	UCP3	NM_003356.2	966	agccctcgcactgtatgataaa	181511	-	see also 15447 line
35162	UCP3	NM_003356.2	967	gcacctcgcactgtatgataaa	181512	-	see also 15447 line
35163	UCP3	NM_003356.2	968	ccctcgcactgtatgataaaga	181513	-	see also 15447 line
35164	VWF	NM_000552.2	2684	ggctcagagttaccacaaacgtgc	181532	-	see also 15448 line
35165	VWF	NM_000552.2	2661	aagggtcgcaggtgtaccacaaacg	181531	-	see also 15448 line
35166	TPSB2	NM_024164.2	561	accacattgtgacgcacaaatc	331465	-	tryptase
35167	TPSB2	NM_024164.2	778	caaccgtgtcaactactacttgg	331466	-	see also 35166 line
35168	TPSB2	NM_024164.2	539	gtgaaggtccccaataatggaaa	331464	-	see also 35166 line
35169	ACR	NM_001097.1	280	ctgcttgcgtggcacaataatg	181596	-	see also 15449 line
35170	ACR	NM_001097.1	421	ctctgcgacagagggaatgaca	181597	-	see also 15449 line
35171	BF	NM_001710.3	2424	ctcaocccgcagactttcacatc	181636	-	see also 15450 line
35172	BF	NM_001710.3	1985	cagactatcagggcccatthgtct	181630	-	see also 15450 line
35173	G1RL	NM_016546.1	1403	tgccgaagggtatgaactctaca	181659	-	see also 6912 line
35174	G1RL	NM_016546.1	501	accgtggctgtgaactatagta	181647	-	see also 6912 line
35175	G2	NM_000063.3	646	tgccgcacacccactctctatga	181665	-	see also 15452 line
35176	G2	NM_000063.3	905	atgtgaggtgtgcattatcacc	181676	-	see also 15452 line
35177	G6orf158	NM_153362.1	1373	caagggaacagatgcaaatgtgc	181726	-	see also 9992 line
35178	G6orf158	NM_153362.1	1142	gtgtccgcagcaatccatgatct	181718	-	see also 9992 line
35179	GMA1	NM_001836.2	159	ttccacaggtccctcaaaatttt	181731	-	see also 15454 line
35180	GMA1	NM_001836.2	190	ttccttaagaacgggaactttgt	181733	-	see also 15454 line
35181	GMA1	NM_001836.2	352	caacacagatcatgttactaaa	181744	-	see also 15454 line
35182	CRN	NM_006587.2	3162	gtcatatttgcgtgaatggatta	181823	-	see also 4614 line
35183	CRN	NM_006587.2	2983	atcacactcggatgatgtgtgc	181814	-	see also 4614 line
35184	CTRC	NM_007272.1	171	tagtgtggcgggaactttgattg	181825	-	see also 15456 line
35185	CTRC	NM_007272.1	735	ccgcaagaagcccggtagtctaca	181831	-	see also 15456 line
35186	CTRL	NM_001907.1	272	ggcggatgaccgcatcatcaaa	181833	-	see also 15457 line
35187	CTRL	NM_001907.1	317	tcgctctcgggccattacaca	181835	-	see also 15457 line
35188	CTSG	NM_001911.2	385	aagagtcagacgggaatcgaaacg	181848	-	see also 15458 line
35189	CTSG	NM_001911.2	133	ccctacatggcgtattctcaga	181843	-	see also 15458 line
35190	DKFZP586						
35190	H2123	NM_015430.1	998	aacggcgcgcactgctaaaattgg	181878	-	see also 6414 line
35191	DKFZP586						
35191	H2123	NM_015430.1	995	atcaacggacgcgcactgctaaaat	181877	-	see also 6414 line
35192	DKFZp686						
35192	L1818	NM_182502.1	1343	gacttttatcgcaattggatta	181937	-	see also 15460 line
35193	DKFZp686						
35193	L1818	NM_182502.1	172	cactatgactacagatottatt	181898	-	see also 15460 line

図46 (続き)

975

35194	DKFZp886	NM_182502.1	881	gacacgggaagtccaaacatta	181925	-	see also 15460 line
35195	L1818	NM_001972.1	358	acgcctacgaccgcgttaacttg	181942	-	see also 15461 line
35196	ELA2	NM_001972.1	248	ctgcgtggcgaatgtaaacgtcc	181941	-	see also 15461 line
35197	ELA2A	NM_033440.1	82	cccacattacccacccttatgtga	181945	-	trypsin
35198	ELA2B	NM_015849.1	82	ctccactacggcgctgctatgt	181946	-	see also 15482 line
35199	ELA2B	NM_015849.1	604	cagcacccgtgaagacgaatata	181948	-	see also 15462 line
35200	ELA3A	NM_005747.2	555	gcccgtggggactatgaagaact	181952	-	trypsin
35201	ELA3B	NM_007352.1	558	gcccgtggggactatgaagaact	181954	-	see also 15463 line
35202	F11	NM_000128.2	379	atccaccccgatggtttacttgt	181959	-	see also 15464 line
35203	F11	NM_000128.2	701	cagaataacgaagctcgataaag	181972	-	see also 15464 line
35204	FLJ90661	NM_173502.1	2219	ctccatttgacacaaagaatct	182008	-	see also 15465 line
35205	FLJ90661	NM_173502.1	1952	gcttacattgaagtgtatctgg	182007	-	see also 15465 line
35206	FLJ90724	NM_153692.2	1093	atgtgattggcgcaatcattg	182026	-	see also 15466 line
35207	FLJ90724	NM_153692.2	714	gacgggctcattattaccaatgc	182014	-	see also 15466 line
35208	GZMA	NM_006144.2	365	cacacgggaagtgaccttaaac	182050	-	see also 15467 line
35209	GZMA	NM_006144.2	515	tgcattctgtccgatactctga	182055	-	see also 15467 line
35210	GZMA	NM_006144.2	157	gacctacatgtctctacttagt	182043	-	see also 15467 line
35211	GZMB	NM_004131.3	715	gtctctatggacgaacaatagg	182070	-	see also 15468 line
35212	GZMB	NM_004131.3	588	atctgacttaagccattattag	182069	-	see also 15468 line
35213	GZMH	NM_033423.2	192	tggcgacatctagtggagaagg	182075	-	see also 15469 line
35214	GZMH	NM_033423.2	237	ctgcggagggaagctccataatg	182076	-	see also 15469 line
35215	GZMK	NM_002104.1	506	gcccgcgattccagattcattag	182100	-	see also 15470 line
35216	GZMK	NM_002104.1	241	ctgccaataggtttaccacaa	182087	-	see also 15470 line
35217	HAT	NM_004262.1	584	gcccgtccagaccttaataacatt	182133	-	see also 15472 line
35218	HAT	NM_004262.1	75	cacgtgaacttgcacttcaaga	182111	-	see also 15472 line
35219	HGFAO	NM_001528.2	1896	caccgggtggccaaactatgtg	182162	-	see also 1049 line
35220	HPN	NM_002151.1	999	gaggaagaacagcaacgatattgc	182164	-	see also 15474 line
35221	HPN	NM_002151.1	1439	gtggatcttcaggccataaaga	182170	-	see also 15474 line
35222	IF	NM_000204.1	1218	cccgaaccttaacgtagtaaat	182207	-	see also 15475 line
35223	IF	NM_000204.1	1217	cccgaaccttaacgtagtaaat	182206	-	see also 15475 line
35224	KLK1	NM_002257.2	738	cccttgaggaccccccaataagc	182238	-	see also 15476 line
35225	KLK1	NM_002257.2	769	gcccgaaccttaacgtagtaaat	182240	-	see also 15476 line
35226	KLK1	NM_002257.2	768	cgcgcgcagagtgctgtctattg	182239	-	see also 15476 line
35227	KLK10	NM_002776.3	318	ggcgctgctcccccaaaagcaga	182241	-	cell cycle
35228	KLK10	NM_002776.3	615	aacggatgagcagatctcgtg	182242	-	see also 35227 line
35229	KLK11	NM_006853.2	825	cacgaagctctgcaaatatgtg	182244	-	-
35230	KLK11	NM_006853.2	823	tacacgaagctctgcaaatatgt	182243	-	see also 35229 line
35231	KLK12	NM_019598.2	168	agccacacccgaagatttcaatg	182249	-	see also 15477 line
35232	KLK12	NM_019598.2	163	caggcaagccacaccgaagattt	182246	-	see also 15477 line
35233	KLK13	NM_015596.1	262	tgcgcacactgtctaaaggagg	182254	-	see also 15478 line
35234	KLK13	NM_015596.1	644	atgtgtgtgctgcggcacaaga	182258	-	see also 15478 line
35235	KLK13	NM_015596.1	816	tcogtgaacaatccgaataat	182259	-	see also 15478 line
35236	KLK14	NM_022046.3	749	ctctgcaatgcgtgaacatcaac	182263	-	see also 15479 line

図46 (続き)

976

35237	KLK14	NM_022046.3	752	tgcattgctggaacatcaacatc	182264	-	see also 15479 line		
35238	KLK15	NM_017509.2	150	acagagctgacacgttttaactgt	182266	-	see also 15480 line		
35239	KLK2	NM_005551.2	660	gacacttgagggtgattctgg	182268	-	-	trypsin	prostate cancer(前立腺癌)
35240	KLK4	NM_004917.2	135	ggcggcactggtcatggaaaacg	182278	-	see also 15481 line		
35241	KLK4	NM_004917.2	308	tacggcaccagagtagacacaga	182281	-	see also 15481 line		
35242	KLK5	NM_012427.3	358	gagcatgtctcggcacaacatga	182283	-	see also 15482 line		
35243	KLK5	NM_012427.3	492	tggatccgactcggatagcaca	182285	-	see also 15482 line		
35244	KLK6	NM_002774.2	431	ctgcaaaaaacggatcttcagg	182300	-	see also 15483 line		
35245	KLK6	NM_002774.2	704	caacatccagtggaatataatcc	182304	-	see also 15484 line		
35246	KLK7	NM_005046.2	414	ctccacacagaccatgttaatg	182308	-	see also 15484 line		
35247	KLK7	NM_005046.2	332	ccgtgcaactggcagtgatagc	182307	-	see also 15486 line		
35248	KLK9	NM_012315.1	397	agcggcaatgaccacaaatgga	182321	-	see also 15486 line		
35249	KLK9	NM_012315.1	396	cagcgcaaatgacacaaatgag	182320	-	see also 15487 line		
35250	KLKB1	NM_000892.2	593	aacacctaccgctataaagggtc	182342	-	see also 15487 line		
35251	KLKB1	NM_000892.2	1396	aggatgttgccgcatatag	182362	-	see also 15488 line		
35252	LOC33996	NM_182606.1	1135	tctgtccggatataatgaagg	182401	-	see also 15488 line		
35253	LOC33996	NM_182606.1	1102	caggtgtatgcaatgatatataa	182399	-	see also 15490 line		
35254	MG034695	NM_173555.1	777	gccttgcggccgacatctttct	182405	-	see also 15490 line		
35255	MG052282	NM_178453.2	259	acctcagtgaggcatgtatgag	182406	-	see also 10269 line		
35256	MG057341	NM_182559.1	249	tgcgaagggtctcggattatagg	182410	-	see also 10269 line		
35257	MG057341	NM_182559.1	50	gagcgtggcgctgtgtttgtgg	182409	-	see also 15492 line		
35258	MPN	NM_031948.2	652	tgggtaccacacccaaacacac	182440	-	see also 15492 line		
35259	MPN	NM_031948.2	341	ggcgggacacacacgctatgatg	182436	-	see also 15493 line		
35260	MSP	NM_032046.1	1675	agcagagtcgagttacgaataatc	182454	-	see also 15493 line		
35261	MSP	NM_032046.1	1674	gagcggaggtgcgattcagaaaa	182453	-	see also 15494 line		
35262	PLAT	NM_000930.2	1625	tcacgcccgtgcacatcaaca	182464	-	see also 15494 line		
35263	PLAT	NM_000930.2	768	agccctggctacagtttttaag	182460	-	see also 15495 line		
35264	PLAU	NM_002658.1	792	tgggtcgtcgaagcttaaccc	182473	-	see also 15495 line		
35265	PLAU	NM_002658.1	945	agccatccggactatacagacc	182476	-	see also 2431 line		
35266	PRSS12	NM_003619.2	1237	agggtcgttggaggtatattac	182502	-	see also 2431 line		
35267	PRSS12	NM_006799.2	164	ggatccgactaccctattacc	182483	-	see also 15497 line		
35268	PRSS21	NM_006799.2	455	acccgtactctgtatgaatat	182537	-	see also 15497 line		
35269	PRSS21	NM_006799.2	454	caccgtactctgtatgaata	182536	-	see also 15497 line		
35270	PRSS21	NM_006799.2	456	cccgtaactctgtatgaatc	182538	-	see also 15498 line		
35271	PRSS22	NM_022119.2	475	gtctgagcgtccatcacagttc	182558	-	see also 15498 line		
35272	PRSS22	NM_022119.2	228	atcgtgagcgtccagagaagatg	182555	-	see also 5366 line		
35273	PRSS25	NM_013247.3	1027	ctcccgggagtagtaaaccttc	182562	-	see also 5366 line		
35274	PRSS25	NM_013247.3	1030	ccggagtagtaaacattcattc	182564	-	see also 5366 line		
35275	PRSS25	NM_013247.3	1028	tcgggagtagtaaacattc	182563	-	see also 5366 line		
35276	PRSS7	NM_002772.1	2783	tggggagtagtaaacattc	182674	-	see also 15500 line		
35277	PRSS7	NM_002772.1	391	cagcattatagtagttgacc	182603	-	see also 15501 line		
35278	PRSS8	NM_002773.2	929	gaggtgtaactccctgtacaaca	182685	-	see also 15501 line		
35279	PRSS8	NM_002773.2	962	gctgagggagcgcactttgtcc	182686	-	see also 15502 line		
35280	PRTN3	NM_002777.2	373	aactcagcagcggagaaacaaact	182687	-	see also 15502 line		

図46 (続き)

977

35281	PRTN3	NM_002777.2	377	acgaacgaggagaacaaactgaac	182688	-	see also 15502 line
35282	SPUVE	NM_007173.3	865	atcgccatgattatgattatgc	182698	-	see also 15503 line
35283	SPUVE	NM_007173.3	781	atgcccagagagatgaatttca	182696	-	see also 15503 line
35284	ST14	NM_021978.2	1834	aggtagaactgctcaactgtacc	182721	-	see also 15504 line
35285	ST14	NM_021978.2	750	cccacggagactccaaacagttaca	182718	-	see also 15504 line
35286	TMPRSS2	NM_005656.2	772	tgcgggcaatgctcgatatctata	182736	-	see also 15505 line
35287	TMPRSS2	NM_005656.2	774	ccgcaatgctcgatatctataaa	182738	-	see also 15505 line
35288	TMPRSS3	NM_024022.1	478	gacggagctcaggattgcaaga	182774	-	see also 15506 line
35289	TMPRSS3	NM_024022.1	437	gtcgtcctcctttaagtgtac	182772	-	see also 15506 line
35290	TMPRSS4	NM_019894.2	770	agcttcgcatcggaactoaagt	182796	-	see also 15507 line
35291	TMPRSS4	NM_019894.2	1445	ggcatgtgtgggcatcgttagc	182805	-	see also 15507 line
35292	TMPRSS5	NM_030770.1	792	ccccgtgctccggatagttgg	182810	-	see also 15508 line
35293	TMPRSS5	NM_030770.1	1204	cccacctagccatacttaacgc	182812	-	see also 15508 line
35294	TMPRSS5	NM_030770.1	352	ggctctctgtctgtatctgt	182807	-	see also 15508 line
35295	TMPRSS6	NM_153019.2	503	cccgcctgggaacttactaac	182820	-	see also 15509 line
35296	TMPRSS6	NM_153019.2	501	caccgcctgggaacttactaac	182819	-	see also 15509 line
35297	TPSD1	NM_012217.1	649	ctgtgtgcgggagcggaataca	182835	-	see also 15510 line
35298	TPSD1	NM_012217.1	577	caacttgcgaacgggaataca	182833	-	see also 15510 line
35299	TPSG1	NM_012467.1	389	ctccacgcgtgagcagatcacc	182836	-	see also 15510 line
35300	TSP50	NM_013270.2	511	gcctgctctggcgtgtgtttac	182837	-	trypsin
35301	TSP50	NM_013270.2	691	aggaaactcaagtagcaacattac	182838	-	see also 15511 line
35302	C9orf43	NM_152786.1	1465	accgtctctatgtgtacagaact	182868	-	see also 15512 line
35303	C9orf43	NM_152786.1	614	cacgcgtgttagacatcttagatt	182842	-	see also 15512 line
35304	C9orf43	NM_152786.1	612	ctcaccgtgttagacatcttaga	182841	-	see also 15513 line
35305	FLJ10504	NM_018116.2	170	gccccgacgctcctgtatcgtacg	182878	-	see also 15513 line
35306	FLJ10504	NM_018116.2	1280	tgtgtctgagaggtatagacaga	182883	-	see also 15513 line
35307	FURIN	NM_002569.2	2081	tctcgatacgcactatagcaacc	182906	-	see also 1652 line
35308	FURIN	NM_002569.2	2559	ggcgagagagagcgcctttatca	182907	-	see also 1652 line
35309	MBTPS1	NM_003791.1	2886	cagaagatggcgtcgtatataca	182962	-	see also 2590 line
35310	MBTPS1	NM_003791.1	2025	tgcggacagtgttgaatgtcacc	182943	-	see also 2590 line
35311	PAGE4	NM_002570.2	1104	atcgtgggcatagcgtacaatgc	182991	-	see also 15516 line
35312	PAGE4	NM_002570.2	990	gacgtgaacggcaatgatataga	182988	-	see also 15516 line
35313	PAGE4	NM_002570.2	584	ggcgacacgggtaccctcaacttgg	182973	-	see also 15516 line
35314	PCSK1	NM_000439.3	1506	atggtagaattgatttggatt	183046	-	see also 346 line
35315	PCSK1	NM_000439.3	442	ctcgaaggaggtgcctttcatatc	183019	-	see also 346 line
35316	PCSK2	NM_002594.2	400	gacggatcttcaacaaatcattt	183070	-	see also 1675 line
35317	PCSK2	NM_002594.2	1617	ggagtcggcctgggaatttaataca	183094	-	see also 1675 line
35318	PCSK4	NM_017573.2	985	gtccatggaccctcccactatagc	183097	-	-
35319	PCSK5	NM_006200.2	2320	tccgctatagccgagttgaaga	183149	-	see also 15519 line
35320	PCSK5	NM_006200.2	1557	cagcggagagctctacataaga	183126	-	see also 15519 line
35321	PCSK7	NM_004716.2	1666	gtcagtcocgtgttaaaagaaaa	183178	-	see also 3237 line
35322	PCSK7	NM_004716.2	1440	tggcatgatagccttaattgtcgc	183175	-	see also 3237 line
35323	PCSK9	NM_174936.2	1640	ggcagaggtggcagctgttttgg	183184	-	see also 10133 line
35324	TNS	NM_022648.2	2209	atgttcgcgtctcctcaatcctttc	183200	-	see also 15522 line

図46 (続き)

978

35325	TNS	NM_022648.2	1429	cacacgcagggccactatagg	183198	-	see also 15522 line
35326	TNS	NM_022648.2	795	tgaatgaagcgggtctatgagg	183187	-	see also 15522 line
35327	TPP2	NM_003291.1	3741	atcatgtatctcccgattattg	183365	-	see also 2225 line
35328	TPP2	NM_003291.1	1546	atgaactactctgttcagaataca	183269	-	see also 2225 line
35329	APEH	NM_001640.3	1990	tgcgtactactagtgaactatc	183355	-	see also 15524 line
35330	APEH	NM_001640.3	567	aacgatgagagacattcgattc	183337	-	see also 15524 line
35331	DPP4	NM_001935.2	2078	atcccggtggagtgactatgact	183434	-	see also 1234 line
35332	DPP4	NM_001935.2	1460	tcggaaaggttgactactatt	183410	-	see also 1234 line
35333	DPP4	NM_001935.2	226	gtcgaaacttcaacttaact	183366	-	see also 1234 line
35334	FAP	NM_004460.2	984	atccgtgttcggatattatt	183485	-	see also 3010 line
35335	FAP	NM_004460.2	985	tcocgtttcggatattatta	183466	-	see also 3010 line
35336	FAP	NM_004460.2	1574	agcgactacccaagtgactatgc	183485	-	see also 3010 line
35337	PREP	NM_002726.2	924	tcaccaactatcggtgatcaaca	183529	-	see also 15527 line
35338	PREP	NM_002726.2	39	gaccgcgtacaggattatcatg	183501	-	see also 15527 line
35339	SERPINE2	NM_002575.1	481	ttccgggaagataattcgact	183572	-	see also 1656 line
35340	SERPINE2	NM_002575.1	759	caacactgtacagatgatgtact	183579	-	see also 1656 line
35341	SERPINE1	NM_000602.1	786	cagcccgatggccattactacg	183595	-	see also 15529 line
35342	SERPINE1	NM_000602.1	363	cgcctccggcgatctgtacaagg	183591	-	see also 15529 line
35343	SERPINE1	NM_000602.1	227	aggacgcgaacgtggtttctcca	183588	-	see also 15529 line
35344	CLPP	NM_006012.1	529	cccaactcccgatcatcgatcc	183603	-	see also 15530 line
35345	CLPP	NM_006012.1	528	tcaccaactcccgatcatcgatc	183602	-	see also 15530 line
35346	WDR11	NM_018117.1	1179	tacgtgtcgaagatcttataat	183628	-	see also 7260 line
35347	WDR11	NM_018117.1	2618	gtgacttttgtatattggatgt	183679	-	see also 7260 line
35348	CLN2	NM_000391.2	643	tcgtaagcgatatacaactgacc	183713	-	see also 15532 line
35349	CLN2	NM_000391.2	1475	gggactatctacttgcataatg	183717	-	see also 15532 line
35350	DPP7	NM_013379.1	114	ggtgtgaccacttcaacttgc	183720	-	see also 15533 line
35351	DPP7	NM_013379.1	113	agcgttggaccacttcaacttc	183719	-	see also 15533 line
35352	FOLH1	NM_004476.1	768	gcaagggcgatctagtgtatg	183734	-	see also 3028 line
35353	FOLH1	NM_004476.1	371	tcctctcgggtgtttataaaa	183725	-	see also 3028 line
35354	NAALAD2	NM_005467.2	1616	gagccggttacactaagaataag	183789	-	see also 15535 line
35355	NAALAD2	NM_005467.2	164	ctgtgcgctatcataaagata	183743	-	see also 15535 line
35356	NAALADL	NM_005468.1	1219	ctggcgctctgcagatcaatgc	183817	-	see also 15536 line
35357	NAALADL	NM_005468.1	1919	ttggccaacacatatacaact	183827	-	see also 15536 line
35358	P11	NM_006025.2	1137	caggcaaaagtgtgccagttaagc	183846	-	see also 4204 line
35359	P11	NM_006025.2	1037	ttcaactggcagcgtactataa	183843	-	see also 4204 line
35360	PRSS16	NM_005865.2	1146	tacagagttcggtctctatgtca	183858	-	see also 15538 line
35361	PRSS16	NM_005865.2	656	tgtcggtttctccgagtataat	183853	-	see also 15538 line
35362	RELN	NM_005045.2	358	tactacttcggcagcaagaata	183864	-	see also 3523 line
35363	RELN	NM_005045.2	6236	acgttggctgttcgactatagc	184032	-	see also 3523 line
35364	RHBDL2	NM_017821.2	955	aggtttggatgacgaattgtgc	184161	-	see also 15540 line
35365	RHBDL2	NM_017821.2	236	aagatcggcgaagagataaaaag	184145	-	see also 15540 line
35366	ADAMTS2	NM_014244.1	1059	cacggggccacgatgaataccacg	184165	-	see also 5553 line
35367	ADAMTS2	NM_014244.1	1595	ccccctggacgggactatgtgt	184166	-	see also 5553 line
35368	ADAMTS2	NM_014244.1	1597	ccccggacgggactatgtgtgc	184167	-	see also 5553 line

図46 (続き)

979

35369	PMPCB	NM_004279.1	102	ctgggggacaggtcattatttt	184187	-	see also 15542 line
35370	PMPCB	NM_004279.1	103	tgcggggcgggtattattttg	184188	-	see also 15542 line
35371	PMPCB	NM_004279.1	627	ctgcacttggacggacaatttg	184205	-	see also 15543 line
35372	OSGEP	NM_017807.1	546	tgcatactggacaactcgttacc	184235	-	see also 15543 line
35373	OSGEP	NM_017807.1	321	tggattaaacctccaggatatcg	184228	-	see also 15543 line
35374	OSGEP	NM_022353.1	1067	atctgtgtgtgcgaagtaact	184276	-	see also 8343 line
35375	OSGEP	NM_022353.1	1073	tgggtgcgaagtaactctata	184280	-	see also 8343 line
35376	IDE	NM_004969.1	2724	agcaattgcactagacaacac	184359	-	see also 3451 line
35377	IDE	NM_004969.1	296	atccacacacgagataagtcaca	184298	-	see also 3451 line
35378	IDE	NM_004969.1	1346	cacggggctatacatataagatt	184328	-	see also 3451 line
35379	NRD1	NM_002525.1	2810	ccggttggtctatgattgacaag	184450	-	see also 1621 line
35380	NRD1	NM_002525.1	209	cggcgctctggagaatcgaaacg	184376	-	see also 1621 line
35381	RCE1	NM_005133.1	707	cagcggtggggaacacatctctgt	184482	-	see also 15547 line
35382	RCE1	NM_005133.1	435	ctggtcagctctctatggattg	184478	-	see also 15547 line
35383	ADAM18	NM_014237.1	2174	atcgtaattctatcctcgttgatca	184560	-	see also 15548 line
35384	ADAM18	NM_014237.1	1690	gagctcaatctcacagttttatc	184544	-	see also 15548 line
35385	ADAM32	NM_145004.4	1858	atgcataactgtagactacacaaat	184625	-	see also 15549 line
35386	ADAM32	NM_145004.4	1455	tacaatacagcgctggaatgtagg	184614	-	see also 15549 line
35387	ADAM7	NM_003817.1	2124	ctgggtatcggagttcttatact	184709	-	see also 15550 line
35388	ADAM7	NM_003817.1	2126	cgggtatcggagttcttatact	184710	-	see also 15550 line
35389	ADAMTS1	NM_080722.2	2500	cccttatacgggagcaacaatgt	184730	-	see also 15551 line
35390	ADAMTS1	NM_080722.2	2594	gaggatccagttccccaataac	184731	-	see also 15551 line
35391	ADAMTS1	NM_139056.1	594	ctgcacatccacgactctgtaca	184739	-	see also 9648 line
35392	ADAMTS1	NM_139054.2	1656	tgccttaagtaaccgaagtgttac	184825	-	see also 9648 line
35393	ADAMTS1	NM_139054.2	2735	cgccggaagcatgaaatccagg	184858	-	see also 15553 line
35394	UQCR01	NM_003365.1	1494	ctgtgacccaatgaaatcgatg	184887	-	see also 15553 line
35395	UQCR01	NM_003365.1	953	tgcgaatgtggttttaactac	184876	-	see also 15553 line
35396	UQCR02	NM_003366.1	426	tgcctgcgggggtggtgtgtat	184898	-	see also 2271 line
35397	UQCR02	NM_003366.1	609	ttggctaactcctgtgtgtgac	184909	-	see also 2271 line
35398	ZMPSTE24	NM_005857.2	1306	agccaaacccactctattggact	184949	-	see also 4072 line
35399	ZMPSTE24	NM_005857.2	1314	cactctattggactattgataca	184951	-	see also 4072 line
35400	BACE	NM_012104.2	1573	cccaagacgactgttacaagttt	184973	-	see also 5134 line
35401	BACE2	NM_012105.3	825	cccgcaactctacatagacacg	184980	-	see also 15557 line
35402	BACE2	NM_012105.3	833	tctcatagacacactctttga	184981	-	see also 15557 line
35403	CTSD	NM_001909.3	481	tgtctggtatccacacagaatca	185004	-	see also 15558 line
35404	CTSD	NM_001909.3	515	tccagcacctactggaagaatgg	185005	-	see also 15558 line
35405	NAP1	NM_004851.1	401	ctgtgtacacacacgattgac	185014	-	see also 15559 line
35406	NAP1	NM_004851.1	402	tgtttacacacgattgac	185015	-	see also 15559 line
35407	PGC	NM_002630.1	561	ttcgtctatcgcagtttgagg	185020	-	see also 15560 line
35408	PGC	NM_002630.1	1046	ttcctctatctctcagtaaca	185025	-	see also 15560 line
35409	PGC	NM_002630.1	795	tactggcagattggcattgaaga	185021	-	see also 15560 line
35410	REN	NM_000537.2	1077	ctcaccaagcggagactatgtatt	185044	-	see also 15561 line
35411	REN	NM_000537.2	1079	caccagcgggactatgtatttc	185045	-	see also 15561 line
35412	FLJ13687	NM_024935.2	1592	gggttgacggcagcacaatttot	185091	-	see also 15562 line

図46 (続き)

980

35413	FLJ13687	NM_024935.2	1188	cacacagacacgtagctatgcatca	185078	-	see also 15562 line
35414	FLJ25084	NM_152792.1	874	tgcgtccgggaacacctttttagtg	185111	-	see also 15563 line
35415	FLJ25084	NM_152792.1	871	gccttcgtccgggaacaccttttga	185110	-	see also 15563 line
35416	FLJ25084	NM_152792.1	870	tgccttcgtccgggaacaccttttgg	185109	-	see also 15563 line
35417	NRIP2	NM_031474.1	609	gcgccttgagggttagagaaaaagg	185117	-	-
35418	MGC26605	NM_144662.1	186	tcacacgcgagtcggaatttcgagg	185121	-	see also 15564 line
35419	MGC26605	NM_144662.1	131	ccagacagggacacacctttttcaag	185118	-	see also 15564 line
35420	MGC26605	NM_144662.1	347	tgcgtatgctagtagtaataaa	185128	-	see also 15564 line
35421	PSMA2	NM_002787.2	56	ttcagccctctgtgtaaacctgt	185145	-	see also 15565 line
35422	PSMA2	NM_002787.2	434	tggaaatgaggagacacacatattt	185159	-	see also 15565 line
35423	PSMA3	NM_002788.2	480	acggctgcgaacctacacatgatt	185173	-	see also 15566 line
35424	PSMA3	NM_002788.2	601	gacctgcctgatatgcttaaaag	185179	-	see also 15566 line
35425	PSMA4	NM_002789.3	183	gtgccttataccaaagtgaatat	185191	-	see also 1815 line
35426	PSMA5	NM_002790.2	107	tacgacacggggcgtaatacttt	185211	-	see also 15568 line
35427	PSMA5	NM_002790.2	108	acgacagggggcgtaatacttt	185212	-	see also 15568 line
35428	PSMA5	NM_002790.2	314	gcctatgagtgagcctaattgtgta	185222	-	see also 15568 line
35429	PSMA7	NM_002792.2	346	cgccgagtcgaaggatagtcacaa	185235	-	see also 1818 line
35430	PSMA7	NM_002792.2	341	ctacccgcgcgagtcgaaggatagt	185234	-	see also 1818 line
35431	PSMA7	NM_002792.2	753	gagatcaatccctcaagatttta	185239	-	see also 1818 line
35432	PSMB1	NM_002793.2	130	tgcgatttcgcctcactcgttttc	185241	-	see also 15570 line
35433	PSMB1	NM_002793.2	131	gcgatttcgcctcactcgttttca	185242	-	see also 15570 line
35434	PSMB10	NM_002801.2	405	atggagctacacgcgttatctac	185267	-	see also 15571 line
35435	PSMB10	NM_002801.2	637	acgggttcacgcgcgaacacagcag	185270	-	see also 15571 line
35436	PSMB2	NM_002794.3	644	cagtgctgaatacattgacaaaa	185284	-	see also 15572 line
35437	PSMB2	NM_002794.3	114	gagtaacctcactcgttatccagg	185273	-	see also 15572 line
35438	PSMB3	NM_002795.2	498	caactgcgcgcgaacacaaatgtag	185296	-	see also 15573 line
35439	PSMB3	NM_002795.2	314	gtccgcagatacaaaccttatacc	185291	-	see also 15573 line
35440	PSMB4	NM_002796.2	317	ctctggcactcacgctgatttcc	185302	-	see also 15574 line
35441	PSMB4	NM_002796.2	572	cactggttatggcgacatacttgg	185308	-	see also 15574 line
35442	PSMB4	NM_002796.2	185	ctcagctcgcgcgttaagtctg	185299	-	see also 15574 line
35443	PSMB5	NM_002797.2	373	ggctcggaatgtggaatctatg	185319	-	see also 15575 line
35444	PSMB5	NM_002797.2	253	ggctacagcgggtggttaccattg	185318	-	see also 15575 line
35445	PSMB6	NM_002798.1	683	gggtagagcggcgaagtacttttg	185333	-	proteasome endopeptidase
35446	PSMB6	NM_002798.1	240	acctatcacgcgcgaacttttt	185325	-	see also 35445 line
35447	PSMB6	NM_002798.1	522	ctccggagcctctacatctatg	185328	-	see also 35445 line
35448	PSMB7	NM_002799.2	155	cgctgggtgctctataaaggatg	185336	-	see also 15576 line
35449	PSMB7	NM_002799.2	645	ctggctccggaagcaaacattga	185343	-	see also 15576 line
35450	PSMB8	NM_004159.3	875	caagggtatgggaacacattatg	185354	-	see also 15577 line
35451	PSMB8	NM_004159.3	687	ctgtactatctgcgaatggaga	185349	-	see also 15577 line
35452	PSMB8	NM_004159.3	960	ggccgagggcgtattgcttatgc	185359	-	see also 15577 line
35453	PSMB9	NM_002800.3	496	tcgcgcagcacccttatctatg	185367	-	see also 15578 line
35454	PSMB9	NM_002800.3	495	ctccggcagcacccttatctatg	185366	-	see also 15578 line
35455	PSMB9	NM_002800.3	628	atctacctggtcactattacagc	185368	-	see also 15578 line

図46 (続き)

981

35456	SEN1	NM_014554.1	652	caactgtctogatgtcttagttc	185390	-	see also 15579 line
35457	SEN1	NM_014554.1	486	ttcatgtctgcgaagctcttttga	185386	-	see also 15579 line
35458	AGTPBP1	NM_015239.1	2926	tccggattacatctctacaattt	185509	-	see also 6284 line
35459	AGTPBP1	NM_015239.1	2689	cagaatcgcccttactgttttt	185503	-	see also 6284 line
35460	AGTPBP1	NM_015239.1	1563	aggccttgagccggaatcacattg	185461	-	see also 6284 line
35461	CPA1	NM_001868.1	343	ctcacacgacacatttaactacg	185528	-	see also 15581 line
35462	CPA1	NM_001868.1	221	atccaggcggtaagattttot	185527	-	see also 15581 line
35463	CPA1	NM_001868.1	1084	agccagtggaagcactattgact	185533	-	see also 15581 line
35464	CPA2	NM_001869.1	535	tgctgagagtggtgtacacaag	185545	-	see also 15582 line
35465	CPA2	NM_001869.1	466	gcctatgaactgtctcaagtcca	185544	-	see also 15582 line
35466	CPA3	NM_001870.1	184	accacgtagtctctaataatgatg	185563	-	see also 1202 line
35467	CPA3	NM_001870.1	855	gagacgaagcgtctcaactaatt	185585	-	see also 1202 line
35468	CPA4	NM_016352.1	359	ttcaactacgggggtaccattc	185621	-	see also 6832 line
35469	CPA4	NM_016352.1	118	cagcaaatgtgagtcacactagtga	185611	-	see also 6832 line
35470	CPA5	NM_080385.2	1794	gacgtgtcttcgacagacatact	185650	-	see also 15585 line
35471	CPA5	NM_080385.2	1928	ctgcacatcggtgtggtactcaaca	185655	-	see also 15585 line
35472	CPA6	NM_020361.2	1293	gtoagtatacggggatcagataca	185700	-	see also 15586 line
35473	CPA6	NM_020361.2	1300	tacgggtgacgatacagatatgg	185701	-	see also 15586 line
35474	CPA6	NM_020361.2	754	ggcagacgacatcacgactcaaaag	185684	-	see also 15586 line
35475	CPB1	NM_001871.1	1044	caaggacacaaagtacacatatgg	185731	-	see also 15587 line
35476	CPB1	NM_001871.1	928	ttcaactgtactcccaaatgatg	185726	-	see also 15587 line
35477	CPB2	NM_001872.2	366	agcctccgcatctactatgaac	185740	-	see also 15588 line
35478	CPB2	NM_001872.2	367	gcctccgcatctactatgaaca	185741	-	see also 15588 line
35479	CPB2	NM_001872.2	369	ctccgcatctactatgaacagt	185742	-	see also 15588 line
35480	CPD	NM_001304.3	447	gtgcgcacaggttgtgtactact	185789	-	see also 859 line
35481	CPD	NM_001304.3	982	aacggcgacacattgtgtatgt	185803	-	see also 859 line
35482	CPD	NM_001304.3	3771	agccgacaggtgtccataacatta	185911	-	see also 859 line
35483	CPE	NM_001873.1	1477	aaggaatagaccacgatgttaca	185957	-	see also 1203 line
35484	CPE	NM_001873.1	875	taggatatgtactgtgaatgaga	185935	-	see also 1203 line
35485	CPN1	NM_001308.1	875	tggccaattaccctgtatgacaag	185978	-	see also 15591 line
35486	CPN1	NM_001308.1	1427	ctgcggaaccaacgttgttaact	185987	-	see also 15591 line
35487	CPN1	NM_001308.1	1428	tgcgggaaccaacgttgttaact	185988	-	see also 15591 line
35488	GPO	NM_173077.1	537	gacggatctcaatcgaaatttca	186013	-	see also 15592 line
35489	GPO	NM_173077.1	533	ttgggaacgatctcaatcgaaat	186010	-	see also 15592 line
35490	CPXM	NM_019609.2	239	tccggattcggatcactcaagaag	186029	-	see also 15593 line
35491	CPXM	NM_019609.2	505	ctggaggacggcgcatctatatga	186039	-	see also 15593 line
35492	GPZ	NM_003652.1	730	aagctcatcggcaacatttcagg	186059	-	see also 15594 line
35493	GPZ	NM_003652.1	1367	gagcattctccgatttcaactac	186066	-	see also 15594 line
35494	DSCAML1	NM_020693.2	4661	caogcatctcggcttaacctgc	186114	-	see also 7916 line
35495	DSCAML1	NM_020693.2	1705	tccgggtctatcggaacatcaca	186088	-	see also 7916 line
35496	FLJ21347	NM_022827.2	1188	ggcttctatagcgagaagatgc	186132	-	see also 15596 line
35497	FLJ21347	NM_022827.2	1177	acoggtccggagcctctatagc	186131	-	see also 15596 line
35498	FLJ23598	NM_024783.2	1932	aaggaacagggacgagttgtatg	186188	-	see also 15597 line
35499	FLJ23598	NM_024783.2	1775	ggccacagtcgtaagaataat	186178	-	see also 15597 line

図46 (続き)

982

35500	FLJ32310	NM_152336.1	596	ttccacgatccctattattat	186216	-	see also 15598 line
35501	FLJ32310	NM_152336.1	597	tcacgatccctattattatg	186217	-	see also 15598 line
35502	FLJ32310	NM_152336.1	475	ctggagcgttagcaattttct	186212	-	see also 15598 line
35503	LOC11958	NM_198148.1	1655	cgtggagccacgatggaattga	186244	-	see also 15599 line
35504	LOC11958	NM_198148.1	2240	caagttcatcgtggcattaaagg	186254	-	see also 15599 line
35505	MGC20452	NM_153232.2	708	caaggtggacccctgatatattaa	186271	-	see also 15600 line
35506	MGC20452	NM_153232.2	598	ccgattgctcccgagggaatata	186267	-	see also 15600 line
35507	TBC1D1	NM_015173.1	1160	caagacagctatcctttcaaac	186298	-	see also 6266 line
35508	TBC1D1	NM_015173.1	817	aagcgccgaagcctgattatga	186287	-	see also 6266 line
35509	PGCP	NM_016134.2	617	ctgggtggaacctcttcttgatga	186327	-	see also 15602 line
35510	PGCP	NM_016134.2	1076	ggcggtggagcctttatcatcg	186340	-	see also 15602 line
35511	FLJ14675	NM_032823.3	1573	ctcgaggagcatctgtatcaagc	186391	-	see also 15603 line
35512	FLJ14675	NM_032823.3	2313	aggtgtggtggcgaatgtatttt	186403	-	see also 15603 line
35513	RNPEPL1	NM_018226.2	636	gtgggcaaggtacgacattgtct	186406	-	see also 7329 line
35514	RNPEPL1	NM_018226.2	405	tgcacccggagtgcatcatggt	186404	-	see also 7329 line
35515	TAF2	NM_003184.2	3088	atggagttctccttatgcaatga	186505	-	see also 15605 line
35516	TAF2	NM_003184.2	1978	gagttagatggatccttcaatca	186465	-	see also 15605 line
35517	METAP1	NM_015143.1	632	gtgggccaatgtatttacaattg	186543	-	see also 15606 line
35518	METAP1	NM_015143.1	127	atgttctgctggcgaatgattaaa	186527	-	see also 15606 line
35519	METAP2	NM_006838.2	1399	agcgcaattgaacataccatcc	186581	-	see also 15607 line
35520	METAP2	NM_006838.2	636	aagactgttcacgcaagttaata	186554	-	see also 15607 line
35521	PA2G4	NM_006191.1	1238	ccacacagtgagggaacattaga	186583	-	see also 15608 line
35522	DPEP1	NM_004413.1	746	ggcgctctcggggcactctatca	186589	-	see also 15609 line
35523	DPEP1	NM_004413.1	374	atggaggactccctgttcattga	186584	-	see also 15609 line
35524	DPEP2	NM_022355.1	881	ctgggcaatggtgagacttctc	186594	-	see also 15610 line
35525	DPEP2	NM_022355.1	704	gacaatgactcttcattctacg	186592	-	see also 15610 line
35526	DPEP3	NM_022357.1	395	gagacagcgttacaaagaatgtgc	186598	-	see also 15611 line
35527	DPEP3	NM_022357.1	813	gtcagcggaattgacaagcttgg	186599	-	see also 15611 line
35528	DNPEP	NM_012100.1	559	ggctgacgcgctcattgtcaagt	186613	-	see also 5131 line
35529	DNPEP	NM_012100.1	1027	ggcattggtcacactctatgaca	186620	-	see also 5131 line
35530	LOC63929	NM_022098.2	1493	tcggggtcttgggtacgaattg	186663	-	see also 8270 line
35531	LOC63929	NM_022098.2	635	agcctatacgcctagaagaatttc	186643	-	see also 8270 line
35532	XPNPEP1	NM_020383.2	1640	tccttggcgcatcagttacaaaa	186694	-	see also 7859 line
35533	XPNPEP1	NM_020383.2	1366	atgaggtgaccttattgactcg	186686	-	see also 7859 line
35534	XPNPEP2	NM_003399.3	1160	gtgtgcaaatcagagattacagc	186721	-	see also 15615 line
35535	XPNPEP2	NM_003399.3	1703	ccggtgtgctataggaaattat	186727	-	see also 15615 line
35536	ACY1	NM_000666.1	1214	ctcgtgggtgggagacatatatac	186744	-	see also 15616 line
35537	ACY1	NM_000666.1	1215	tcogtgggtggagacatatataca	186745	-	see also 15616 line
35538	CN1	NM_032649.4	1131	gtcatacctggccgaggtatagg	186765	-	see also 15617 line
35539	CN1	NM_032649.4	1206	caggtgacacgacacatttgaaga	186773	-	see also 15617 line
35540	CN2	NM_018235.1	382	ggatcccgctccctctctattct	186793	-	see also 15618 line
35541	CN2	NM_018235.1	1262	aactacgacccccaatgggttc	186807	-	see also 15618 line
35542	FLJ32569	NM_152491.1	1009	cacggcactcaacatttcaag	186838	-	see also 15619 line
35543	FLJ32569	NM_152491.1	978	atcccttaaccaatgcaataatc	186837	-	see also 15619 line

図46 (続き)

983

35544	PITRM1	NM_014889.1	1229	agcctcatagacagacgattga	186869	-	see also 15620 line
35545	PITRM1	NM_014889.1	2593	gccttcccggtgaattacgtgg	186894	-	see also 15620 line
35546	PITRM1	NM_014889.1	2867	gacatagaagaagccaaacttc	186899	-	see also 15620 line
35547	TIMP1	NM_003254.1	364	acgcagcaggaggtttctatt	186907	-	see also 15621 line
35548	TIMP1	NM_003254.1	238	agcgttatgagatacagatgacc	186906	-	see also 15621 line
35549	DPP10	NM_020868.1	2297	gagattcatcaagatttagtttc	186967	-	see also 8010 line
35550	DPP10	NM_020868.1	1972	tacgggacacccagcaaatatt	186953	-	see also 8010 line
35551	DPP6	NM_001936.2	630	ctggtatctgagattatcagtc	187003	-	see also 15623 line
35552	DPP6	NM_001936.2	427	cgcgagctgaagtggaatgga	186992	-	see also 15623 line
35553	DPP8	NM_017743.3	1839	taogtagtcagttacgttaatcc	187095	-	see also 15624 line
35554	DPP8	NM_017743.3	1836	ctgtacgttagtcagttacgtaaa	187094	-	see also 15624 line
35555	DPP9	NM_139159.2	2749	atgagccaaacgcttgcatttc	187171	-	see also 9662 line
35556	DPP9	NM_139159.2	2903	gtgggctggagcactatgaagtc	187177	-	see also 9662 line
35557	PRCP	NM_005040.2	1530	gccgctctctggaagttagaca	187222	-	see also 15626 line
35558	PRCP	NM_005040.2	1229	tactaatggtctgatgacatgt	187213	-	see also 15626 line
35559	PPGB	NM_000308.1	412	tactcogattgacaaagttttatgc	187232	-	see also 15627 line
35560	PPGB	NM_000308.1	262	ccggctgcagctcactagatgg	187227	-	see also 15627 line
35561	PPGB	NM_000308.1	857	gggtgcccagccatttttagtat	187242	-	see also 15627 line
35562	CPVL	NM_019029.1	1045	tactagtaggcagacttaacaagt	187268	-	see also 15628 line
35563	CPVL	NM_019029.1	401	cacogtgaataagaacttaaca	187251	-	see also 15628 line
35564	CPVL	NM_019029.1	684	gacgatgtagcacacgggatttata	187258	-	see also 15628 line
35565	RISC	NM_021626.1	1113	atcaagtagcaggtatataatgg	187306	-	see also 8152 line
35566	RISC	NM_021626.1	1116	aacgtgacgtgtataatgaca	187307	-	see also 8152 line
35567	FLJ25059	NM_144981.1	225	ttcgactgtttgctactactatt	187313	-	-
35568	FLJ25059	NM_144981.1	478	caccactagttccatcagattctt	187319	-	see also 35567 line
35569	FLJ25059	NM_144981.1	313	atcaatggagcctacaattcaaa	187315	-	see also 35567 line
35570	CASP10	NM_001230.2	1180	ttccattccggagatcatgtct	187355	-	see also 15630 line
35571	CASP10	NM_001230.2	325	taggattggtccccaacaagaag	187340	-	see also 15630 line
35572	CASP14	NM_012114.1	52	agcaatccgcggtctttgggaaga	187366	-	see also 15631 line
35573	CASP14	NM_012114.1	555	ttccaggtagagagatcacatcg	187375	-	see also 15631 line
35574	CASP14	NM_012114.1	534	cacagatgcttgcacgctttatt	187373	-	see also 15631 line
35575	CASP3	NM_004346.2	668	ggggatcgtgttagaagttctaac	187380	-	see also 15632 line
35576	CASP3	NM_004346.2	912	atgcgcacaagctgaattatg	187392	-	see also 15632 line
35577	CASP4	NM_001225.2	86	atccctgggcaagatttctca	187400	-	see also 15633 line
35578	CASP4	NM_001225.2	384	ctgagactatgtaagaagaagc	187405	-	see also 15633 line
35579	CASP5	NM_004347.1	805	ctcggaactcgccataaagaa	187427	-	see also 15634 line
35580	CASP5	NM_004347.1	144	atcaaaagtcgaccagtgtaaaa	187414	-	see also 15634 line
35581	CASP6	NM_001226.2	351	agcgcagtgagacttttgcaaa	187461	-	see also 806 line
35582	CASP6	NM_001226.2	400	cacgcagatgccgattgtttgt	187443	-	see also 806 line
35583	CASP7	NM_001227.2	466	cggagacogagtgccctacatca	187470	-	see also 15636 line
35584	CASP7	NM_001227.2	404	ttgtaccgtcccttcagtaag	187469	-	see also 15636 line
35585	CASP8	NM_001228.2	1003	tcggggatctgtctgtatca	187515	-	see also 807 line
35586	CASP9	NM_001229.2	1245	ctgcttagggctgctatgtctgt	187545	-	see also 15638 line
35587	CASP9	NM_001229.2	420	gtggtgctcagaccagagattcg	187537	-	see also 15638 line

図46 (続き)

984

35588	CFLAR	NM_003879.3	741	ctcactgtttcggactataga	187553	-	see also 15639 line
35589	CFLAR	NM_003879.3	743	cactctgtttcggactataggt	187554	-	see also 15639 line
35590	CAPN10	NM_021251.2	251	gcctcttcggacttcttaag	187576	-	-
35591	CAPN13	NM_144575.1	1455	tcactctgtttcgaagtgatc	187614	-	diabetes mellitus(糖尿病)、diabetes(糖尿病)
35592	CAPN13	NM_144575.1	1139	cgcggaagaaagcagctacataag	187600	-	see also 15640 line
35593	CAPN13	NM_144575.1	763	gccaaagctgcggatcctattc	187596	-	see also 15640 line
35594	CAPN5	NM_004055.3	1995	tcacacctcgggaccgaaatagc	187632	-	see also 2732 line
35595	CAPN5	NM_004055.3	803	cagctcttgagcgcattgttaaa	187663	-	see also 5594 line
35596	CAPN6	NM_014289.2	1702	ggcttaccggaagtagttactca	187661	-	see also 5594 line
35597	CAPN6	NM_014289.2	1698	tcgttgctaccgcgaagtagtta	187677	-	see also 5603 line
35598	CAPN7	NM_014296.1	327	tactccgagcgctgttttatta	187742	-	see also 5603 line
35599	CAPN7	NM_014296.1	2250	tacacgggttcgggtatttcagc	187764	-	see also 15644 line
35600	CTSL	NM_001912.2	443	ggcgatgcacacacagattatagc	187767	-	see also 15644 line
35601	CTSL	NM_001912.2	906	cagtatgttcaggataatggagg	187782	-	see also 15645 line
35602	CTSL2	NM_001333.2	1118	gggctcgaatggcttatgtaaaa	187781	-	see also 15645 line
35603	CTSL2	NM_001333.2	1117	gggctcgaatggcttatgtaaaa	187792	-	see also 15646 line
35604	LGMN	NM_005606.3	783	gtgtctactacgctgttactatg	187795	-	see also 15646 line
35605	LGMN	NM_005606.3	787	ttctacgctgttactatgatga	187830	-	see also 3813 line
35606	PIGK	NM_005482.1	685	atggctctagctagtagtcaagt	187819	-	see also 3813 line
35607	PIGK	NM_005482.1	455	ctgggtcaaaaagctctttctt	187857	-	see also 2749 line
35608	CTSS	NM_004079.3	457	gtcaaaccttaacgggtattg	187873	-	see also 2749 line
35609	CTSS	NM_004079.3	919	cagaagtggtgttactatgaac	187882	-	see also 317 line
35610	CTSK	NM_000396.2	413	ctgtctcattcccgcagtaaga	187883	-	see also 317 line
35611	CTSK	NM_000396.2	415	gtctattccgcgagtaatgaca	187903	-	see also 15650 line
35612	CTSH	NM_004390.2	557	cgcatcgcgaacccggaagatgc	187916	-	see also 15650 line
35613	CTSH	NM_004390.2	1039	tcgagcgcggaagaaacatgtgt	187921	-	see also 15651 line
35614	CTSB	NM_001908.2	815	gacaagcactaaggatacaattc	187920	-	see also 15651 line
35615	CTSB	NM_001908.2	762	ccccaaagtgtagcaagatctgt	187950	-	see also 306 line
35616	BLMH	NM_000386.2	887	tcagatgtgtgcatctgtttg	187963	-	see also 306 line
35617	BLMH	NM_000386.2	1436	aagaccatggcccaacaaagttac	187970	-	see also 15653 line
35618	AQP11	NM_173039.1	1017	caotttcctacatttcattgt	187976	-	see also 15653 line
35619	AQP11	NM_173039.1	1140	tgcataacacacatacaattaat	188038	-	see also 15654 line
35620	ARHGEF10	NM_014629.1	6183	ggcgtctaccagtagaagtct	188010	-	see also 15654 line
35621	ARHGEF10	NM_014629.1	4972	aagaacgcgcgagttctcatgta	188050	-	see also 15655 line
35622	CT120	NM_024792.1	385	gtcgaaacgcgcctcatgatcaca	188046	-	see also 15655 line
35623	CT120	NM_024792.1	198	ggctggggatcgtcatcctcg	188059	-	see also 15656 line
35624	CTSC	NM_001814.2	179	tgccaaactgcacctattctgac	188062	-	see also 15656 line
35625	CTSC	NM_001814.2	306	aagctggatacagacatatgata	188104	-	see also 15657 line
35626	CTSF	NM_003793.2	666	tacotataacccggacatatgagt	188109	-	see also 15657 line
35627	CTSF	NM_003793.2	710	gcctgtcgtgtttgtcaataac	188126	-	see also 15658 line
35628	CTSO	NM_001334.2	187	aagtttaataagacatcgatact	188139	-	see also 15658 line
35629	CTSO	NM_001334.2	531	ttgactgttctgtaataataat	188168	-	see also 15659 line
35630	CTSW	NM_001335.2	626	tgtgtggggacgcgttcataact	188167	-	see also 15659 line
35631	CTSW	NM_001335.2	625	ttcgtctgggacgcgttcataac		-	

図46 (続き)

985

35632	CTSZ	NM_001336.2	795	aactacacaggagccatctatgc	188178	-	see also 15660 line
35633	CTSZ	NM_001336.2	999	atcgaggagcactgtacatttgg	188185	-	see also 15660 line
35634	CYLD	NM_015247.1	2766	gaggcttgcaatgtatgagtgt	188256	-	see also 6290 line
35635	CYLD	NM_015247.1	856	gaggacagctcccggaattct	188202	-	see also 6290 line
35636	D13S106E	NM_005800.3	781	gagcaaacctctgcaaacctacc	188283	-	see also 15662 line
35637	D13S106E	NM_005800.3	2435	aggacgtcagttaaacaatttc	188336	-	see also 15662 line
35638	D13S106E	NM_005800.3	1897	gaaccaacactctcagtaaga	188317	-	see also 15662 line
35639	FLJ20558	NM_017880.1	1777	aaactacggtctgtatagaaaaac	188413	-	see also 7168 line
35640	FLJ20558	NM_017880.1	1931	ctcggatcaagtgtgagtatgg	188424	-	see also 7168 line
35641	GPR114	NM_153837.1	909	tgcggctcattgtatctacttc	188427	-	see also 15664 line
35642	GPR114	NM_153837.1	903	gggagctgggctcactctgtatc	188426	-	see also 15664 line
35643	GRP58	NM_005313.3	633	taccgatttgacatacgaatgt	188450	-	see also 15665 line
35644	GRP58	NM_005313.3	559	taggttttttcgattgattcattc	188445	-	see also 15665 line
35645	GRP58	NM_005313.3	991	tagctagccgcaaacctttagc	188468	-	see also 15665 line
35646	KIAA1203	NM_020718.1	303	agccggactccaagactattgt	188479	-	see also 15666 line
35647	KIAA1203	NM_020718.1	1940	ctgcacgcagacagcagatacatcc	188517	-	see also 15666 line
35648	LCN7	NM_022164.1	767	tccgactcgtctcaatccattc	188535	-	see also 15667 line
35649	LCN7	NM_022164.1	686	aagtgcccaacccctgattcatga	188533	-	see also 15667 line
35650	LOC83893	NM_031463.3	476	gaatagacgagacacgtacaaagt	188553	-	see also 15668 line
35651	LOC83893	NM_031463.3	236	gcctgtatatacggcagaaaaag	188544	-	see also 15668 line
35652	MGC20741	NM_018561.3	1868	tccggctgcacotttaaagattc	188596	-	see also 7525 line
35653	MGC20741	NM_018561.3	1783	agcaaacgagaaaaatccaatcc	188591	-	see also 7525 line
35654	MGC26717	NM_173824.2	943	ctggacattaccgaaccatct	188622	-	see also 15670 line
35655	MGC26717	NM_173824.2	422	aacgcagagccagttacaaaga	188612	-	see also 15670 line
35656	PARK2	NM_004562.1	864	tccgccacgtgatttcttaga	188645	-	see also 15671 line
35657	PARK2	NM_004562.1	778	tgcacctgctgcacaaatagt	188641	-	see also 15671 line
35658	PARK2	NM_004562.1	868	gccacgtgatttcttagactgt	188646	-	see also 15671 line
35659	USP1	NM_003368.3	1773	gacgcgtgtctgggaatgtgaaa	188688	-	see also 15672 line
35660	USP1	NM_003368.3	2175	aaactaacgacagctatgattat	188705	-	see also 15672 line
35661	USP10	NM_005153.1	1481	tacgtcaacacccatgatagaca	188772	-	see also 3615 line
35662	USP11	NM_004651.2	643	ttcagccataccgattctattgg	188785	-	see also 3165 line
35663	USP11	NM_004651.2	653	ccgattctattggccctagtattg	188786	-	see also 3165 line
35664	USP12	NM_182488.1	708	tgttgtttacctaattggttaata	188842	-	see also 10263 line
35665	USP12	NM_182488.1	353	ttccggatcaatgagcaactattt	188828	-	see also 10263 line
35666	USP14	NM_005151.2	150	ccgctctactccgttactgtaaa	188868	-	see also 15676 line
35667	USP14	NM_005151.2	582	atgctctcagcagcagatattac	188885	-	see also 15676 line
35668	USP15	NM_006313.1	2534	gtcttggccgctataatctgatt	189029	-	see also 4416 line
35669	USP15	NM_006313.1	106	gtgatagtcctctggttcaaca	188922	-	see also 4416 line
35670	USP16	NM_006447.1	492	gaggtccagatttagtttcaaa	189049	-	see also 4515 line
35671	USP16	NM_006447.1	1204	tttgtgtgactaactagtagtg	189069	-	see also 4515 line
35672	USP18	NM_017414.2	1409	ctggagagaaactgcatacttc	189115	-	see also 15679 line
35673	USP18	NM_017414.2	1410	tggcagagaaactgcatacttc	189116	-	see also 15679 line
35674	USP2	NM_004205.3	1265	acgcgctttgtggctataatc	189130	-	see also 2815 line
35675	USP2	NM_004205.3	1554	cccatgtctaagcaggttatcc	189138	-	see also 2815 line

図46 (続き)

986

35676	USP20	NM_006676.2	1565	aacgttcaggacttatoactgc	189161	-	see also 15681 line
35677	USP20	NM_006676.2	689	cggccttggtgcgacagataaga	189152	-	see also 15681 line
35678	USP21	NM_012475.2	1139	atgatgacccgagccacactaatg	189178	-	see also 5349 line
35679	USP25	NM_013396.2	2862	aaccgattatcgtttacatcatg	189272	-	see also 5429 line
35680	USP25	NM_013396.2	2863	accgattatcgtttacatcatg	189273	-	see also 5429 line
35681	USP26	NM_031907.1	682	ttcgaaggttaagctataatc	189315	-	see also 15684 line
35682	USP26	NM_031907.1	549	cacttacttgaggagagattaca	189309	-	see also 15684 line
35683	USP29	NM_020903.1	2121	aaccaatattctgtagagtcca	189423	-	see also 15685 line
35684	USP29	NM_020903.1	2602	aacgatctatgtgtacgaat	189434	-	see also 15685 line
35685	USP29	NM_020903.1	2593	ttcacataaacgactatgtgt	189432	-	see also 15685 line
35686	USP3	NM_006537.1	1595	aggcgaaggcctacatcttttc	189475	-	see also 4570 line
35687	USP3	NM_006537.1	181	agcgtgtgcgggtcccaacaaag	189438	-	see also 4570 line
35688	USP30	NM_032663.2	777	aaagctcactagttaattgtct	189497	-	see also 15687 line
35689	USP30	NM_032663.2	827	ttcogatttgaccttggatagc	189499	-	see also 15687 line
35690	USP31	NM_032236.3	2007	atgaacggtagcacccttaataa	189580	-	see also 15688 line
35691	USP31	NM_032236.3	1130	agggtgggtctactggtgtgaac	189538	-	see also 15688 line
35692	USP33	NM_015017.2	821	gactagctcgaacagataagaaa	189627	-	see also 6186 line
35693	USP33	NM_015017.2	1758	aggatcatgtggcgaagcatatg	189655	-	see also 6186 line
35694	USP36	NM_025090.2	1273	gtccgtatatgtccagataaat	189716	-	see also 15690 line
35695	USP36	NM_025090.2	1274	tcogtatatgtccagataaatg	189717	-	see also 15690 line
35696	USP37	NM_020935.1	581	aacaagccgcctaatgttaact	189739	-	see also 8038 line
35697	USP37	NM_020935.1	872	atccggtagagagatcgattaaag	189745	-	see also 8038 line
35698	USP37	NM_020935.1	962	cagggttgctgagaaaatcgact	189750	-	see also 8038 line
35699	USP38	NM_032557.4	2009	agcatagccacctcgagatattct	189835	-	see also 9246 line
35700	USP38	NM_032557.4	2284	aactacgaactacatacgttgt	189841	-	see also 9246 line
35701	USP4	NM_003363.2	350	accgagcgcgggaataaactact	189881	-	see also 2268 line
35702	USP4	NM_003363.2	231	atgtgggtggaacataacactattt	189877	-	see also 2268 line
35703	USP44	NM_032147.1	905	ctcgtcagtcgacacataataga	189960	-	see also 15693 line
35704	USP44	NM_032147.1	2354	gacgtgataccctcgtcttaaga	190007	-	see also 15693 line
35705	USP46	NM_022832.2	1063	atcgtgggcattatatacactatt	190040	-	see also 8487 line
35706	USP46	NM_022832.2	594	atgaacgaacccctgggaaataa	190024	-	see also 8487 line
35707	USP47	NM_017944.2	855	gggctggcgaatcgacacatc	190061	-	see also 7180 line
35708	USP47	NM_017944.2	859	tggcgaatcgacacatacttga	190064	-	see also 7180 line
35709	USP5	NM_003481.1	329	ccacggcggctggctatttgggt	190182	-	see also 15696 line
35710	USP5	NM_003481.1	808	agctgacgtgactcatatgatg	190189	-	see also 15696 line
35711	USP52	NM_014871.1	1820	gcctgacgtcgttaattcaaa	190231	-	see also 6067 line
35712	USP52	NM_014871.1	863	gagagacctccgtacttttaagg	190211	-	see also 6067 line
35713	USP7	NM_003470.1	1096	ttgtcgaggttgcctcggaatg	190309	-	see also 15698 line
35714	USP7	NM_003470.1	3095	acgagccggacgtttcgaataga	190372	-	see also 15698 line
35715	USP7	NM_003470.1	3094	aacgagccggacgtttcgaatag	190371	-	see also 15698 line
35716	USP8	NM_005154.1	3283	gactcgaacgggattctctaaaa	190459	-	see also 3617 line
35717	USP8	NM_005154.1	3284	agctcgaacgggattctctaaaa	190460	-	see also 3617 line
35718	USP9X	NM_004652.2	3791	tgggtcgttacagctagtattta	190528	-	see also 3166 line
35719	USP9X	NM_004652.2	2779	cagtaacgaagatgtattctcaat	190510	-	see also 3166 line

図46 (続き)

987

35720	USP9Y	NM_004654.2	6329	ttgtctatccaactcaaacgattt	190646	-	see also 15701 line
35721	USP9Y	NM_004654.2	3694	cggcgatgtatttgaatcgtat	190611	-	see also 15701 line
35722	BAP1	NM_004656.2	212	tacgacattcagagcaaatgtca	190669	-	see also 15702 line
35723	BAP1	NM_004656.2	817	gcgcgacgcagagcaaatgtatg	190676	-	see also 15702 line
35724	BAP1	NM_004656.2	319	tacgtccgtgattgatgatgata	190671	-	see also 15702 line
35725	UHL1	NM_004181.3	332	ctgtggcacaatcggactattc	190694	-	see also 15703 line
35726	UHL1	NM_004181.3	354	cacgcagtgcccaataatcaaga	190696	-	see also 15703 line
35727	UHL3	NM_008002.3	671	agcgcgaccctgatgaactaaga	190716	-	see also 4186 line
35728	UHL3	NM_008002.3	667	atggagcgcgaccctgatgaact	190714	-	see also 4186 line
35729	UHL5	NM_015984.1	344	ctccgacttgacacgatattt	190724	-	see also 6595 line
35730	UHL5	NM_015984.1	346	cccgaactgacacgatattt	190726	-	see also 6595 line
35731	UHL5	NM_015984.1	444	gtccatttagcgagacattatc	190731	-	see also 6595 line
35732	UFD1L	NM_005659.3	238	accaactcagccgacttaacatt	190757	-	see also 3929 line
35733	UFD1L	NM_005659.3	483	accaaccccaagccgtattaga	190766	-	see also 3929 line
35734	PGPEP1	NM_017712.1	100	accgtgaacgccagttgattgc	190781	-	see also 15707 line
35735	PGPEP1	NM_017712.1	183	tcoggtgagtaccacaacagtc	190784	-	see also 15707 line
35736	MG27076	NM_152699.2	1331	cagaacatgcttctaataccatg	190819	-	see also 9927 line
35737	PRSC2	NM_145204.2	588	tgggatgtacgtgatgtatgaaca	190862	-	see also 15709 line
35738	PRSC2	NM_145204.2	104	accggtgactgttgattacatg	190843	-	see also 15709 line
35739	SEN3	NM_015670.2	1491	ggcgacgcacacatcacattttt	190879	-	see also 15710 line
35740	SEN3	NM_015670.2	1535	cgcgcgtgcctgaagcaatttc	190882	-	see also 15711 line
35741	SEN7	NM_020654.2	1332	gacgtgagacaactaatgaana	190929	-	see also 15711 line
35742	SEN7	NM_020654.2	2686	cccaaaagaccggtcggaatag	190966	-	see also 15711 line
35743	SEN7	NM_020654.2	2994	aagtgtttctcgtgatgtat	190979	-	see also 15711 line
35744	SUSP1	NM_015571.1	2230	tggacccggcagtagatattt	191058	-	see also 15712 line
35745	SUSP1	NM_015571.1	2229	atggacccggcagtagatattt	191057	-	see also 15712 line
35746	TINAG	NM_014464.1	4	gtggacccggatataagatcttaa	191084	-	see also 5696 line
35747	TINAG	NM_014464.1	836	aagaaacccgcatggatgcaatag	191112	-	see also 5696 line
35748	ABHD5	NM_016006.3	265	aagaacctgttcgtatatataat	191132	-	see also 15714 line
35749	ABHD5	NM_016006.3	1038	tcctaacgacacattcatatgt	191156	-	see also 15714 line
35750	GGH	NM_003878.1	185	atgcgctaatataagtcattgaaa	191160	-	see also 15715 line
35751	GGH	NM_003878.1	230	tgcgtcctatgtataagacttgg	191165	-	see also 15715 line
35752	LOC51185	NM_016302.2	290	ctgattcccgagacagacattacc	191185	-	see also 6798 line
35753	LOC51185	NM_016302.2	741	ctcgtgctgtattctctatat	191194	-	see also 6798 line
35754	RNF127	NM_024778.3	418	agccctcggaggtgtatagacagc	191220	-	see also 15717 line
35755	RNF127	NM_024778.3	1003	tagcaatcggctcagattatt	191227	-	see also 15717 line
35756	RNF127	NM_024778.3	1439	tgcgtctctatgatgagattatt	191237	-	see also 15717 line
35757	G14orf137	NM_023112.2	802	ttcagtttaoctgctctataaaa	191264	-	see also 15718 line
35758	G14orf137	NM_023112.2	839	atcctttatgcagcgcgataaaca	191266	-	see also 15718 line
35759	C14orf137	NM_023112.2	803	tccgtttaccctgctctataaac	191265	-	see also 15718 line
35760	C2orf7	NM_032319.1	135	ggcttcctcatcatgattattt	191270	-	see also 15719 line
35761	C2orf7	NM_032319.1	178	ctgggagacattcgtacatcttc	191273	-	see also 15719 line
35762	C9orf52	NM_152574.1	1791	acctagtgccgtcacctctattt	191313	-	see also 15720 line
35763	C9orf52	NM_152574.1	874	aaggattatcagactactagaat	191292	-	see also 15720 line

図46 (続き)

988

35764	CGI-14	NM_015944.2	369	ttccacacccgaggtttatcaca	191322	-	see also 6586 line
35765	CGI-14	NM_015944.2	803	ccgcagccgctgctatcttat	191324	-	see also 6586 line
35766	DHH	NM_021044.2	738	gccgtgttgacatcaactacg	191327	-	see also 8076 line
35767	DKFZP566						
	H073	NM_015528.1	770	tgccgctgtagtacacaaatgtga	191336	-	see also 6451 line
35768	DKFZP566						
	H073	NM_015528.1	1059	cagcgggaatcgacttaccacaaaga	191348	-	see also 6451 line
35769	FLJ10613	NM_019067.3	315	gccaatcgagagctgaattataa	191354	-	see also 15723 line
35770	FLJ10613	NM_019067.3	1393	atctcagctgagatgtttaag	191364	-	see also 15723 line
35771	FLJ25461	NM_144966.1	425	aactcggccactctcaaatatt	191387	-	see also 15724 line
35772	FLJ25461	NM_144966.1	553	ctcggcctttggggataaaagg	191393	-	see also 15724 line
35773	IMP5	NM_175882.1	1816	gagcccaactggatcctaataga	191422	-	see also 15725 line
35774	IMP5	NM_175882.1	168	cccactctccctctgtatgatg	191416	-	see also 15725 line
35775	KYNU	NM_003937.1	554	aagcctacgccaaacagatatataa	191435	-	see also 15726 line
35776	KYNU	NM_003937.1	555	agcctacgccaaacagatatataa	191436	-	see also 15726 line
35777	LOC56926	NM_020170.1	1190	tgccgtcccggtgattcttaag	191475	-	see also 15727 line
35778	LOC56926	NM_020170.1	1219	accogtaaacagaggatcattgc	191477	-	see also 15727 line
35779	LOC90701	NM_033280.1	93	cgcgtccggttggatatcttcg	191480	-	see also 9394 line
35780	LOC90701	NM_033280.1	357	aggacagagacattccaatgttc	191486	-	see also 9394 line
35781	MGC10067	NM_145049.1	937	ggcacctaataatgtgataaaga	191521	-	see also 15728 line
35782	MGC10067	NM_145049.1	936	agcgcaactaaatcggtataaag	191520	-	see also 15728 line
35783	OTUB1	NM_017670.1	830	gcctggacactacgatatacctct	191532	-	see also 15729 line
35784	OTUB1	NM_017670.1	299	cagcctcgagcggaactgtttct	191526	-	see also 15729 line
35785	PACS1	NM_018026.2	2152	tggggtcagtcgacagtaataac	191557	-	see also 15730 line
35786	PACS1	NM_018026.2	2158	cagtcgacagtaataacagtagt	191559	-	see also 15730 line
35787	RNF128	NM_024539.3	779	ctcgaaagctacgggaatgaaga	191586	-	see also 8634 line
35788	RNF128	NM_024539.3	1225	caactgcagtcacacaaatgaag	191600	-	see also 8634 line
35789	RNF13	NM_007282.3	1024	ctggcatttcacgtgttaatt	191619	-	see also 5076 line
35790	RNF13	NM_007282.3	1864	atggtgaacgggattacaacata	191630	-	see also 5076 line
35791	RNF130	NM_018434.4	1364	atgtactgataaacgtagcattcg	191659	-	see also 7470 line
35792	RNF130	NM_018434.4	977	cagccgtggtctctagctctcg	191649	-	see also 7470 line
35793	RNF149	NM_173647.2	556	cacgcgggaacaggaataatagt	191670	-	see also 15734 line
35794	RNF149	NM_173647.2	1009	cacggaacatgtccaatgtgttaa	191677	-	see also 15734 line
35795	RNF149	NM_173647.2	1010	accgaacatgtccaatgtgttaa	191678	-	see also 15734 line
35796	SHH	NM_000193.2	356	aactcgcagcgtatgaaggaaact	191682	-	see also 15735 line
35797	SPC12	NM_014041.1	268	ttcggatggactgtctatatagt	191687	-	see also 5470 line
35798	SPC12	NM_014041.1	265	cagtcggggtggactgtctatat	191686	-	see also 5470 line
35799	SPC18	NM_014300.2	794	caggggattgttccttatattg	191694	-	see also 15737 line
35800	SPC18	NM_014300.2	791	agccagggattgttctctata	191693	-	see also 15737 line
35801	SPPL2A	NM_032802.2	632	atcgtggcctcaactttgattata	191709	-	see also 9286 line
35802	SPPL2A	NM_032802.2	629	tccatcgtggcctcaactttgatt	191708	-	see also 9286 line
35803	SPPL2B	NM_020172.1	1280	gggttcggagacacatttggctgc	191759	-	see also 15739 line
35804	SPPL2B	NM_020172.1	609	ggagatcgggacgtgaagaaag	191756	-	see also 15739 line
35805	SPPL2B	NM_020172.1	608	cggagatcgggacgtgaagaaag	191755	-	see also 15739 line

図46 (続き)

989

35806	SPPL3	NM_139015.3	789	cagttctgcaacagatagctttt	191773	-	see also 15740 line
35807	SPPL3	NM_139015.3	1429	ctgcacccctcatcgatatttg	191784	-	see also 15740 line
35808	TFR2	NM_003227.2	1770	tgcgcgtcagttctctttatgg	191790	-	see also 15741 line
35809	TFR2	NM_003227.2	2126	agcgactgcacacgcatgacaac	191792	-	see also 15741 line
35810	TFR2	NM_003227.2	912	gggggttatgtggcggtatagtaa	191823	-	see also 2184 line
35811	TFR2	NM_003227.2	613	ctgcacacgctgcttatattgg	191813	-	see also 2184 line
35812	WFIKNRP	NM_175575.4	1653	cgcgcctcgtctgggttacaaca	191873	-	see also 15744 line
35813	WFIKNRP	NM_175575.4	1655	cgctcgtctgggttacaacaacg	191874	-	see also 15744 line
35814	OCA2	NM_000275.1	1136	ggcgtatcagcgtctgcatatt	191889	-	see also 15745 line
35815	OCA2	NM_000275.1	2319	tggcgtctcctctgattgacaac	191911	-	see also 15745 line
35816	ATP6V1E1	NM_001696.2	667	ctgtggagttgagatctataat	191926	-	see also 15746 line
35817	ATP6V1E1	NM_001696.2	516	ctggagcccggaatgtgttctg	191920	-	see also 15746 line
35818	ATP6V1E2	NM_080653.2	1568	atcccgagtagacatgacaatttc	191931	-	see also 15747 line
35819	ATP6V1E2	NM_080653.2	1569	tcccgagtagacatgacaatttc	191932	-	see also 15747 line
35820	ATP6V1E2	NM_080653.2	1121	ctgagtgatgctgatgtaaaaa	191928	-	see also 15747 line
35821	ATP6V1F	NM_004231.2	209	gacatttcgggcaatttctaaa	191936	-	hydrogen- translocating V- type ATPase
35822	ATP6V1F	NM_004231.2	211	caotttcgggcaatttctaaa	191937	-	see also 35821 line
35823	ATP1B1	NM_001677.2	941	cagtgcagaaagccgttttcagg	191964	-	see also 15748 line
35824	ATP1B1	NM_001677.2	595	aagaggggcaaacgctgcatatt	191947	-	see also 15748 line
35825	ATP1B3	NM_001679.1	258	accagtgacccgattggaatata	191970	-	see also 15749 line
35826	ATP1B3	NM_001679.1	804	ggagacagttatgttcaaaatca	191981	-	see also 15749 line
35827	ATP1B3	NM_001679.1	803	tgggacaggttatgttcaaaatc	191980	-	see also 15749 line
35828	ATP1B4	NM_012069.2	932	acotttactcggcaaacgtact	192003	-	see also 5105 line
35829	ATP1B4	NM_012069.2	947	aactgactcaagtttaactacaca	192005	-	see also 5105 line
35830	ATP1B4	NM_012069.2	364	gcccgaacagggcctgatttact	191987	-	see also 5105 line
35831	ATP4B	NM_000705.1	300	aaccttaaggccgaggtttacg	192011	-	see also 15751 line
35832	ATP4B	NM_000705.1	742	tcccttattacggggaagaagc	192018	-	see also 15751 line
35833	FXYD2	NM_001680.3	90	gacccgttctactatgactatga	192022	-	see also 15752 line
35834	FXYD2	NM_001680.3	84	gagtgaggccgcttctactatga	192021	-	see also 15752 line
35835	ATP6V0E	NM_003945.2	267	tggagccgcaattgaaaaatgaaa	192026	-	hydrogen- transporting two- sector ATPase
35836	ATP6V0E	NM_003945.2	262	ctcttggacccgcaattgaaaaa	192025	-	see also 35835 line
35837	KATNB1	NM_005886.1	380	caccgtacggcgagtttgtagc	192027	-	see also 15753 line
35838	KATNB1	NM_005886.1	878	atctgcaatgaccctggttagg	192031	-	see also 15753 line
35839	p44S10	NM_014814.1	425	ctgggtcaccgatttgatattgt	192048	-	see also 6005 line
35840	p44S10	NM_014814.1	553	gagaaacccgctaaaagtgtatc	192034	-	see also 6005 line
35841	NUDT9	NM_024047.3	658	atctcagatcagtgaaagtat	192090	-	see also 15755 line
35842	NUDT9	NM_024047.3	1096	gccagacacccatgtgtatata	192103	-	see also 15755 line
35843	HTCD37	NM_021222.1	519	gacccatgagccgaaacacgtgc	192118	-	see also 15756 line
35844	HTCD37	NM_021222.1	398	ggagtagctcatcattata	192115	-	see also 15756 line
35845	MGC20553	NM_174938.3	809	gagccacccaggtgtgtaattta	192140	-	see also 10134 line

図46 (続き)

990

35846	MGC20553	NM_174938.3	1903	cgaggtttgagcagtttcactat	192159	-	see also 10134 line
35847	SHAPY	NM_138793.2	930	gagctatcgacgtgattgtttt	192167	-	see also 15758 line
35848	SHAPY	NM_138793.2	931	agctatcgacgtgattgtttt	192168	-	see also 15758 line
35849	C21orf6	NM_016940.1	570	aacagcctctgctctatgtcagc	192186	-	see also 6977 line
35850	C21orf6	NM_016940.1	374	gacgaaaaaatggcaggttttc	192181	-	see also 6977 line
35851	RWDD2	NM_033411.2	604	ttctcgaatgtggtatcacagt	192202	-	see also 9421 line
35852	RWDD2	NM_033411.2	925	atctgggccaatttctagaattt	192213	-	see also 9421 line
35853	NUDT3	NM_006703.2	700	aaccgtgcaggcatatattt	192220	-	see also 15761 line
35854	NUDT3	NM_006703.2	763	cagctgtggccaccacatactcg	192221	-	see also 15761 line
35855	NUDT4	NM_019094.3	865	cccttccttcgggataaatg	192224	-	phosphatase
35856	NUDT4	NM_019094.3	864	ttccttccttcgggataaat	192223	-	see also 35855 line
35857	NUDT4	NM_019094.3	863	gtccttccttcgggataataa	192222	-	see also 35855 line
35858	ITPA	NM_033453.2	291	atgagattccatcacagaaatg	192227	-	see also 15762 line
35859	ITPA	NM_033453.2	279	agggaggccggatgagatttc	192226	-	see also 15762 line
35860	NUDT2	NM_001161.3	610	caaggaaacagccaaacacagtc	192237	-	see also 741 line
35861	NUDT2	NM_001161.3	556	agcaggccagctgacattattg	192235	-	see also 741 line
35862	RRAGD	NM_021244.2	888	tgatctcgggtgatatgcaaa	192251	-	see also 8144 line
35863	RRAGD	NM_021244.2	289	aggtctgtattcagaaagtgt	192239	-	see also 8144 line
35864	FLJ10458	NM_018096.2	1373	ggccacggatgagatatgac	192268	-	see also 15765 line
35865	FLJ10458	NM_018096.2	1054	ctcggacgactcaocttattcc	192266	-	see also 15765 line
35866	GNB1	NM_002074.2	672	tgoggtgcttggtataacatttg	192277	-	see also 15766 line
35867	GNB1	NM_002074.2	551	ctcgcaggatggtataacttca	192273	-	see also 15766 line
35868	GNB2	NM_005273.2	311	ttcgggatgcccgaagaagcatg	192282	-	see also 15767 line
35869	GNB2	NM_005273.2	310	atccggatgcccgaagaagcatg	192281	-	see also 15767 line
35870	GNB3	NM_002075.2	474	agcctgtgctgacttactctgg	192287	-	see also 1339 line
35871	GNB3	NM_002075.2	822	ttctgtctacacaggttatctct	192290	-	see also 1339 line
35872	GNB4	NM_021629.2	392	gactctgtggtcgaatacaaat	192299	-	see also 15769 line
35873	GNB4	NM_021629.2	360	atgcaacgctgttcagattaca	192296	-	see also 15769 line
35874	GNB5	NM_006578.2	866	cgtaogtgcgtctctatgacc	192340	-	see also 15770 line
35875	GNB5	NM_006578.2	480	tacccttgacgtttgacaaaaa	192336	-	see also 15770 line
35876	GNB5	NM_006578.2	481	accccttgacgtttgacaaaaa	192337	-	see also 15770 line
35877	NG13	NM_016541.1	92	ggagagtgcacagatgaagaaa	192350	-	see also 15772 line
35878	NG3	NM_012202.1	276	ccggtgaacagcactatgatat	192351	-	see also 15773 line
35879	NG4	NM_004485.2	364	cgaggagatcctctcatctcc	192354	-	see also 15774 line
35880	NG5	NM_005274.1	398	gactcaacgcgtataaagtgttc	192358	-	gpcr, signal transducer
35881	NG5	NM_005274.1	396	cgagctcaacgcgtataaagt	192357	-	see also 35880 line
35882	NG5	NM_005274.1	394	gcccgaactcaacgcgtataaagt	192356	-	see also 35880 line
35883	NG8	NM_033258.1	181	cgcgcaaacgcgtcttttgtgt	192361	-	gpcr, signal transducer
35884	NG8	NM_033258.1	118	tgcgagagcagcgtccaaagatga	192359	-	see also 35883 line
35885	NG8	NM_033258.1	179	ttcgcgacaagcgcctcttttgt	192360	-	see also 35883 line
35886	NGT2	NM_031498.1	438	aggaacagatcctttctcaaaag	192366	-	see also 15776 line
35887	NGT2	NM_031498.1	490	gagaaagggtgctctctgataag	192367	-	see also 15776 line

991

図46 (続き)

35888	RGS11	NM_003834.1	1300	gagcgcgttcccggttaactgg	192380	-	see also 15777 line
35889	RGS11	NM_003834.1	334	cccgctactcttggacaagtacc	192370	-	see also 15777 line
35890	RGS11	NM_003834.1	849	gagcctactggttgatgaatgc	192378	-	see also 15777 line
35891	RGS6	NM_004296.3	1525	cgctctctccggtcaaatgctta	192419	-	see also 2877 line
35892	RGS6	NM_004296.3	1088	tgccctacacggacaacaatatgtg	192404	-	see also 2877 line
35893	RGS7	NM_002924.2	457	ttcctattcgtacggccaagaac	192423	-	see also 15779 line
35894	RGS7	NM_002924.2	710	cacagattatccggttaactct	192432	-	see also 15779 line
35895	RGS9	NM_003835.1	1014	gaggcgcctgagataacatagatg	192468	-	see also 15780 line
35896	RGS9	NM_003835.1	1012	gcagaggcgtggtacacaataga	192467	-	see also 15780 line
35897	WDR5B	NM_019069.2	1116	aacgctcgttgatgacataaac	192487	-	see also 15781 line
35898	WDR5B	NM_019069.2	684	ttctgctgtaggctaataataa	192477	-	see also 15781 line
35899	ARHGAP5	NM_001173.1	616	tgccctcatcggggtacgaatttg	192507	-	see also 744 line
35900	ARHGAP5	NM_001173.1	617	gcctctatcggggtacgaatttg	192508	-	see also 744 line
35901	ARHGAP5	NM_001173.1	325	ctcgtcccccactcctataccatc	192494	-	see also 744 line
35902	GTPBP3	NM_032620.1	643	cacgtggaggcctatcgtatt	192648	-	see also 15783 line
35903	GTPBP3	NM_032620.1	1377	cgcccaactcaacagcagtcacaaag	192651	-	see also 15783 line
35904	MFN1	NM_017927.1	1092	ttcgaacacgacacactatcagagc	192682	-	see also 15784 line
35905	MFN1	NM_017927.1	397	ttggccatataacocaaattgcttc	192664	-	see also 15784 line
35906	SAMHD1	NM_015474.2	524	ctcgtccgaatcattgatacc	192732	-	see also 15785 line
35907	SAMHD1	NM_015474.2	521	ctcctcgtccgaatcattgatac	192730	-	see also 15785 line
35908	ACP1	NM_004300.2	158	ttgtaacogatacaaaacatctca	192792	-	phosphatase
35909	ACP1	NM_004300.2	155	aactgtaacogatacaaaacatc	192791	-	see also 35908 line
35910	ACP1	NM_004300.2	420	tgaggagctatgattccacaaaac	192796	-	see also 35908 line
35911	ODC25A	NM_001789.1	1184	ctctctctgctatgagaactaca	192812	-	see also 15786 line
35912	ODC25A	NM_001789.1	1606	gactctgctaccatataaata	192820	-	see also 15786 line
35913	ODC25B	NM_004358.2	582	agccagccggtcattcgaacg	192832	-	see also 15787 line
35914	ODC25B	NM_004358.2	1604	cccgatgtgcggtttcattcagg	192844	-	see also 15787 line
35915	ODC25B	NM_004358.2	1283	cccggtctcctcgtcacaataca	192835	-	see also 15787 line
35916	ODC25C	NM_001790.2	1480	ttgtactaccagcgcttatata	192883	-	see also 15788 line
35917	ODC25C	NM_001790.2	324	accaggtttaggctcaatcaaa	192846	-	see also 15788 line
35918	DUSP18	NM_152511.2	956	ttcactatgagttccaattgttt	192891	-	see also 15789 line
35919	DUSP18	NM_152511.2	675	caacttgatgagatatccagt	192887	-	see also 15789 line
35920	DUSP19	NM_080876.2	399	ttgctctagggtcacaagtgc	192898	-	see also 9541 line
35921	DUSP19	NM_080876.2	652	ctgctgcaattgtaattgttct	192901	-	see also 9541 line
35922	MTM1	NM_000252.1	1737	gccttaacgcgacgaatacatata	192973	-	see also 188 line
35923	MTM1	NM_000252.1	1738	gccttaacgcgacgaatacatata	192974	-	see also 188 line
35924	MTMR3	NM_021090.2	3373	agcgctcgtcgtcagattgagctca	193028	-	see also 8083 line
35925	MTMR3	NM_021090.2	2117	gactagatcattacgaactctga	193013	-	see also 8083 line
35926	PTP4A1	NM_003463.2	1094	ttggagaagtatcgtcctaaat	193052	-	see also 15793 line
35927	PTP4A1	NM_003463.2	1135	ttccaacggttaatagaacaact	193056	-	see also 15793 line
35928	PTP4A3	NM_007079.2	418	caogctcagcaacttcattgagg	193057	-	phosphatase
35929	PTPN1	NM_002827.2	331	gaccatctcgggataaactaca	193061	-	see also 15794 line
35930	PTPN1	NM_002827.2	373	atcaacgctagtttgataaaaat	193065	-	see also 15794 line
35931	PTPN1	NM_002834.3	1023	ccccttaacacagactcgtataaa	193105	-	see also 1854 line

992

図46 (続き)

35932	PTPN11	NM_002834.3	1904	agcacagtaccgattatctata	193119	-	see also 1854 line
35933	PTPN11	NM_002834.3	1024	cccttaacacgactcgtataaat	193106	-	see also 1854 line
35934	PTPN12	NM_002835.2	2207	tccagcggaggattcactatg	193215	-	see also 1855 line
35935	PTPN12	NM_002835.2	246	agcggatttaaatgacattaa	193142	-	see also 1855 line
35936	PTPN12	NM_002835.2	316	gcgtataggccaaaagcatat	193147	-	see also 1855 line
35937	PTPN13	NM_006264.1	7325	tggcctgcgatgagactacaaga	193416	-	see also 4351 line
35938	PTPN13	NM_006264.1	4778	tggtctaccgggaattgatact	193344	-	see also 4351 line
35939	PTPN14	NM_005401.3	3562	gtggctcgtgcccataccaaca	193483	-	see also 3767 line
35940	PTPN14	NM_005401.3	1155	tggccacacgacacaagttttac	193447	-	see also 3767 line
35941	PTPN18	NM_014369.2	450	gcctgtcagagatagagaattgg	193496	-	see also 15799 line
35942	PTPN18	NM_014369.2	581	caggaccctcaaggtocattcc	193499	-	see also 15799 line
35943	PTPN2	NM_002828.2	955	accgaatgggtctattcagacc	193525	-	see also 15800 line
35944	PTPN2	NM_002828.2	647	gtgtattatacagttacatctac	193518	-	see also 15800 line
35945	PTPN21	NM_007039.2	2831	ccgcctctagggggaatgaaa	193567	-	see also 4927 line
35946	PTPN21	NM_007039.2	3587	gtgtgtcagcgcctacacaata	193585	-	see also 4927 line
35947	PTPN22	NM_012411.2	672	atctatagacctattcttgggc	193610	-	see also 5312 line
35948	PTPN22	NM_012411.2	700	tggagtgactgtgttaccaga	193611	-	see also 5312 line
35949	PTPN3	NM_002829.2	2088	atgacaccaccgggtattatg	193718	-	see also 15803 line
35950	PTPN3	NM_002829.2	1078	cagccatggaggatccttatca	193700	-	see also 15803 line
35951	PTPN4	NM_002830.2	1996	accgggttacgacctctcagt	193780	-	see also 1836 line
35952	PTPN4	NM_002830.2	1947	tcacccgggaactctaatcatc	193777	-	see also 1836 line
35953	PTPN5	NM_032781.2	1546	ggcgtacacggtgtgagatca	193850	-	see also 15805 line
35954	PTPN5	NM_032781.2	1271	aaccggtaacaaaccatactcc	193846	-	see also 15805 line
35955	PTPN5	NM_032781.2	1638	agcggagcctgaagcattactgg	193852	-	see also 15805 line
35956	PTPN6	NM_002831.3	796	tacctgcggcagcgtactatgc	193858	-	see also 1850 line
35957	PTPN6	NM_002831.3	1093	ccgggtccgactacataatgc	193863	-	see also 1850 line
35958	PTPN6	NM_002831.3	556	ggcggagccttgacgtttctgt	193856	-	see also 1850 line
35959	PTPN7	NM_002832.2	488	cgctccaaaggaccgatacaaga	193877	-	see also 15807 line
35960	PTPN7	NM_002832.2	562	agcggagcgggagattacataat	193879	-	see also 15807 line
35961	PTPN9	NM_002833.2	1211	ctgggtgggtacgtcaaatgga	193898	-	see also 1851 line
35962	PTPN9	NM_002833.2	1216	tgggtacgtcaaaattgatctcg	193900	-	see also 1851 line
35963	PTPRA	NM_002836.2	1934	cccgatcgccatgctcaagtcc	193936	-	see also 1858 line
35964	PTPRA	NM_002836.2	898	tggaccacacctatttaaacact	193922	-	see also 1858 line
35965	PTPRB	NM_002837.2	5006	ttcgtaggatcgaccattatct	194080	-	see also 1860 line
35966	PTPRB	NM_002837.2	2636	ccgcacccgagtagatgattact	194024	-	see also 1860 line
35967	PTPRD	NM_002839.1	4580	ccacaggactgttcaagtaacg	194329	-	see also 15811 line
35968	PTPRD	NM_002839.1	5533	gacggcagtcgccgacagtaag	194364	-	see also 15811 line
35969	PTPRE	NM_006504.3	2031	ccagtagtgcggcagtttact	194409	-	see also 15812 line
35970	PTPRE	NM_006504.3	1966	gccatcagatagagactttct	194408	-	see also 15812 line
35971	PTPRJ	NM_002843.2	2142	tcggggcaccttatataacatca	194469	-	see also 1868 line
35972	PTPRJ	NM_002843.2	2679	tagaacggaagtcacgtatttga	194486	-	see also 1868 line
35973	PTPRK	NM_002844.2	2388	ccagtgcgtagcattgctgtaca	194597	-	see also 1870 line
35974	PTPRK	NM_002844.2	2392	gtgcgtacgcatgtctacaaga	194598	-	see also 1870 line
35975	PTPRM	NM_002845.2	2502	atcgatgcctaatcttattacc	194732	-	see also 1875 line

図46 (続き)

993

35976	PTPRM	NM_002845.2	330	tccgggggttaactcaatgtctacg	194671	-	see also 1875 line
35977	PTPRN2	NM_002847.2	245	aggtccggcaatgaacttttao	194771	-	see also 1880 line
35978	PTPRN2	NM_002847.2	1201	caggacacagatgatagacttta	194779	-	see also 1880 line
35979	PTPRO	NM_002848.2	2594	tagccgtctcaacaatggttaca	194884	-	see also 1882 line
35980	PTPRO	NM_002848.2	2575	ccagtgatccctacgtctacagc	194883	-	see also 1882 line
35981	PTPRS	NM_002850.2	4795	tccagggtcaggttctagatacc	194936	-	see also 15818 line
35982	PTPRS	NM_002850.2	3925	agcagttatggcggtctcgataac	194931	-	see also 15818 line
35983	PTPRT	NM_007050.3	2927	aaccgcaataagaatcgatatgg	194971	-	see also 4934 line
35984	PTPRT	NM_007050.3	3029	aactacattgacggataccatcg	194973	-	see also 4934 line
35985	PTPRU	NM_005704.2	488	ggcgtatcagtcgcggttaattgg	194995	-	see also 15820 line
35986	PTPRU	NM_005704.2	3206	gagtagtctgcgcgactttggc	195017	-	see also 15820 line
35987	PTPRU	NM_005704.2	3919	ctggcggctgtgtctacgattacg	195023	-	see also 15820 line
35988	TPTE	NM_013315.2	1618	aacacttcattattatttcgatt	195030	-	see also 15821 line
35989	TPTE	NM_013315.2	1642	ctcgttatgtacgtgatctaaa	195031	-	see also 15821 line
35990	PTPRH	NM_002842.1	1819	cccaactctcagttgtacgtatc	195040	-	see also 15822 line
35991	PTPRH	NM_002842.1	1954	aaccggagcaggtgtacaatttc	195043	-	see also 15822 line
35992	PTPRH	NM_002842.1	1384	agcccggaacactgtacacattc	195038	-	see also 15822 line
35993	PTPRN	NM_002846.2	2362	ggcctctcggagcggattacatc	195068	-	see also 15823 line
35994	PTPRN	NM_002846.2	2363	ccctctcggagcggattacatca	195069	-	see also 15823 line
35995	PTPRN	NM_002846.2	2865	ctgaaccgcatggcacaaggaggt	195074	-	see also 15823 line
35996	DUSP1	NM_004417.2	1082	tacattatggagcactaatcaggt	195083	-	see also 2957 line
35997	DUSP1	NM_004417.2	1315	accttcagagcccatcagacc	195085	-	see also 2957 line
35998	DUSP1	NM_004417.2	869	agccaatgtcccaaccatttg	195080	-	see also 2957 line
35999	ACPP	NM_001099.2	665	aagttaacagcccttatttgtt	195110	-	see also 685 line
36000	ACPP	NM_001099.2	980	gccaactgaacgaattgtacttt	195120	-	see also 685 line
36001	DCD14A	NM_003672.2	512	aagatcgttatattttgtact	195127	-	see also 15826 line
36002	DCD14A	NM_003672.2	764	gtccctatgacgtaactctatta	195131	-	see also 15826 line
36003	DCD14A	NM_003672.2	762	aggtgcctatgcagtaactatt	195130	-	see also 15826 line
36004	DCD14B	NM_033331.1	1689	ccggaaccgtacagtgatga	331968	-	phosphatase
36005	DCD14B	NM_033331.1	699	gagaactctacgcagatttgg	331966	-	see also 36004 line
36006	DCD14B	NM_033331.1	1331	tgccattgtcaagaattcctag	331967	-	see also 36004 line
36007	DKFZP566						
36007	K0524	NM_015605.3	528	tacggcgcaaatgtttctgaag	195189	-	phosphatase
36008	K0524						
36009	DUSP2	NM_015605.3	811	ttctggcatggttcaaacgaagg	195170	-	see also 36007 line
36010	DUSP2	NM_004418.2	729	gcttttccgctcacaagatc	195173	-	see also 15827 line
36011	DUSP3	NM_004090.2	726	agggccttttcgctacaagagt	195172	-	see also 15827 line
36012	DUSP5	NM_004419.2	340	ttcaacctcagcgttacttga	195175	-	see also 2758 line
36013	DUSP5	NM_004419.2	598	gagactttctactcggaatcc	195182	-	see also 15828 line
36014	DUSP6	NM_001946.1	1102	agcatggtctcgcccaacttgg	195186	-	see also 15828 line
36015	DUSP6	NM_001946.1	1332	atccaacatcccccaacttca	195196	-	see also 15829 line
36016	DUSP7	NM_001947.1	1448	cccttccaaccagaattgtac	195198	-	see also 15829 line
36017	DUSP7	NM_001947.1	1032	gtcgaagagcagctactttt	195202	-	see also 15830 line
36017	DUSP7	NM_001947.1	359	tccaaggtggttcaacaagttt	195199	-	see also 15830 line

994

圖 46 (續九)

[illegible]

図46 (続き)

995

36044	DUSP4	NM_001394.4	1051	ggcctacggctctgttgatgt	195598	-	see also 15842 line
36045	DUSP4	NM_001394.4	844	tccgagtagccagaattctgttc	195597	-	see also 15842 line
36046	DUSP9	NM_001395.1	761	ccggattccgccaatgttgaga	195601	-	see also 15843 line
36047	DUSP9	NM_001395.1	802	tccgctacactcctaattcacc	195602	-	see also 15843 line
36048	PPP1R3A	NM_002711.2	1489	tacgtggcctgtctcaagaat	195651	-	see also 1765 line
36049	PPP1R3A	NM_002711.2	27	aagtacctagtcagattagcaaa	195605	-	see also 1765 line
36050	PPP1R3C	NM_005398.2	178	ggccctacagtagaattcaacg	195713	-	see also 15845 line
36051	PPP1R3C	NM_005398.2	908	cagagtagagtaacaactcttt	195734	-	see also 15845 line
36052	PPP2R1A	NM_014225.3	605	ggcgggaacttcgaagctacttc	195741	-	see also 15846 line
36053	PPP2R1A	NM_014225.3	1255	tacggctgaacatcatcttaac	195744	-	see also 15846 line
36054	PPP2R1B	NM_002716.3	1232	gtcctgaggttcgttgatatac	195775	-	see also 15847 line
36055	PPP2R1B	NM_002716.3	135	ccgctgcgggttttaactgacg	195749	-	see also 15847 line
36056	PPP2R2A	NM_002717.2	1441	aagcatcgcggggaacaaataag	195835	-	see also 15848 line
36057	PPP2R2A	NM_002717.2	1183	gccatagtggtcgatatatgatg	195826	-	see also 15848 line
36058	PPP2R2A	NM_002717.2	1590	atcattgcgtagctactactaaa	195846	-	see also 15848 line
36059	PPP1R3D	NM_006242.3	1055	aggcagcggagagcgttttoacc	195849	-	see also 15849 line
36060	DUSP21	NM_022076.2	363	ctcgcgtctacgactttttg	195855	-	see also 15850 line
36061	DUSP21	NM_022076.2	479	gccttgctgacctcatgaataac	195859	-	see also 15850 line
36062	DUSP22	NM_020185.3	729	cactgtagtcgacatacatatg	195865	-	see also 7790 line
36063	DUSP22	NM_020185.3	727	gacactgggtgatgcatacatca	195864	-	see also 7790 line
36064	MGC1136	NM_024025.1	496	ggcaagacagcgtgaaccatgc	195869	-	see also 15852 line
36065	MGC1136	NM_024025.1	438	ggcaacccgttaaacatctttcc	195868	-	see also 15852 line
36066	MK-STYX	NM_016086.2	969	tgcacatccggatagaagattcc	195884	-	see also 15853 line
36067	MK-STYX	NM_016086.2	745	ctcagcagcgtaccactttctcc	195881	-	see also 15853 line
36068	MTMR2	NM_016156.2	1953	gtgtcactgtggtctttacataaa	195943	-	see also 15854 line
36069	MTMR2	NM_016156.2	1661	aaccatccgaggtttgaagttcc	195932	-	see also 15854 line
36070	SBF1	NM_002972.1	5999	aacgcgtcgcgtttacaactctt	195972	-	see also 15855 line
36071	SBF1	NM_002972.1	5701	cgcgtcgcgtttacaactcttct	195973	-	see also 15855 line
36072	SBF1	NM_002972.1	5996	ggcaacgcgtcgcgtttacaact	195971	-	see also 15855 line
36073	SSH-3	NM_017857.2	1677	ggcacggccacgataaacctcc	195983	-	see also 15856 line
36074	SSH-3	NM_017857.2	699	ggccacactccaggatttgacc	195976	-	see also 15856 line
36075	SSH2	NM_033389.2	3543	aagttagcgcagacctaagtttaa	196082	-	see also 9415 line
36076	SSH2	NM_033389.2	566	aagtcgccagagcgataaataac	196001	-	see also 9415 line
36077	STYX	NM_145251.2	557	tccctatgactaaggaattttatt	196080	-	see also 15858 line
36078	STYX	NM_145251.2	741	tgcctgattgtccatcaacttc	196083	-	see also 15858 line
36079	CILP	NM_003613.1	2883	ggggatcgtatgatacaaca	196114	-	see also 2428 line
36080	CILP	NM_003613.1	367	tactatggggaccgcgtgtatgfc	196092	-	see also 2428 line
36081	CTDP1	NM_004715.2	425	cagccaccocggtttcatgaag	196125	-	see also 15860 line
36082	CTDP1	NM_004715.2	1008	aagttggccccaactatgataac	196134	-	see also 15860 line
36083	DNAJC6	NM_014787.1	728	gccattgattgctatatacaaa	196168	-	see also 5971 line
36084	DNAJC6	NM_014787.1	1861	tgcgtctcaacccctaagagttg	196189	-	see also 5971 line
36085	FLJ22405	NM_022485.2	517	atggacgcgtcaggtacaactat	196206	-	see also 15862 line
36086	FLJ22405	NM_022485.2	620	cacgcattttttgataaggtca	196212	-	see also 15862 line
36087	ILVBL	NM_006844.3	336	cgcgtgctggtaggacatttcc	196221	-	see also 15863 line

図46 (続き)

996

36088	ILVBL	NM_008844.3	506	acggtgactcgggtgaagaatgc	196223	-	see also 15863 line
36089	MTMR8	NM_017677.2	112	tggatcgttatgtgtaagaaa	196246	-	see also 15864 line
36090	MTMR8	NM_017677.2	212	atgattgactcactccatcacatg	196251	-	see also 15864 line
36091	PPAP2A	NM_003711.2	1028	tgtgttctgttgcgtatccattt	196333	-	see also 2535 line
36092	PPAP2A	NM_003711.2	1195	aagaggagagactctatcaact	196343	-	see also 2535 line
36093	PPAP2B	NM_003713.3	929	ccctacgtggcgcactctataa	196354	-	see also 2536 line
36094	PPAP2B	NM_003713.3	935	gtggcagcactctataagcaagt	196355	-	see also 2536 line
36095	PPAP2C	NM_003712.2	187	gcccgtaacaggaggatttta	196363	-	see also 15866 line
36096	PPAP2C	NM_003712.2	348	ttctcgtcgtgactctcaact	196368	-	see also 15866 line
36097	PPAP2C	NM_003712.2	188	cccgtacaaagcagagatttao	196364	-	see also 15866 line
36098	RNGTT	NM_003800.1	1175	atggtactcgtgtacatgatgtg	196393	-	see also 2598 line
36099	RNGTT	NM_003800.1	1455	aagtcctcgacacagaaatga	196408	-	see also 2598 line
36100	RSC1A1	NM_006511.1	1353	tggcctgtcaacgcagataaggaag	196459	-	see also 15868 line
36101	RSC1A1	NM_006511.1	132	ctcagatcgcttggaactaaag	196430	-	see also 15870 line
36102	INPP5A	NM_005539.2	693	gagatctactcggataccttga	196481	-	see also 15870 line
36103	INPP5A	NM_005539.2	521	gtcggatgacgatgaagaat	196477	-	see also 15871 line
36104	INPP5E	NM_019892.2	1204	ccacggcgtgctctacatgctg	196499	-	see also 15871 line
36105	INPP5E	NM_019892.2	850	ccctcgtcctcgccaatcctcc	196497	-	see also 15871 line
36106	SKIP	NM_016532.2	1267	ggctcgggacgtaactgactao	196525	-	see also 15872 line
36107	SKIP	NM_016532.2	276	aacaaocggaacctaactctga	196511	-	see also 15872 line
36108	OCRL	NM_000276.3	1784	aagaaaggtacccgaaagtcttt	196565	-	see also 227 line
36109	OCRL	NM_000276.3	2384	ttctagtagtacccttattcaa	196579	-	see also 227 line
36110	IMPA2	NM_014214.1	1039	ggcctacagacgataactatg	196600	-	see also 15874 line
36111	IMPA2	NM_014214.1	1040	gccttacagagataactatgg	196601	-	see also 15874 line
36112	IMPA2	NM_014214.1	553	cccgactgtggcgtgagcttg	196592	-	see also 15874 line
36113	INPP1	NM_002194.2	1087	ggcgttaattagtaagtgaaaa	196625	-	see also 15875 line
36114	INPP1	NM_002194.2	1138	gtgtgtggagatgcgcatattgg	196628	-	see also 15875 line
36115	INPP4B	NM_003866.1	2605	aacgatttgcgcgaactgaatg	196704	-	see also 15876 line
36116	INPP4B	NM_003866.1	2611	ttgcgcgaactgaatggtattc	196706	-	see also 15876 line
36117	BPNT1	NM_006085.3	468	atcgaggtacagctctattaaag	196721	-	see also 15877 line
36118	BPNT1	NM_006085.3	196	ttgttagcctccgcatttctat	196716	-	see also 15877 line
36119	FLJ20421	NM_017813.1	659	ccagcgtccagataataactga	196737	-	see also 15878 line
36120	FLJ20421	NM_017813.1	841	tggaaagtacgtcactactatgg	196748	-	see also 15878 line
36121	INPPL1	NM_001567.2	1699	cccgattgccatgcaatcactgt	196772	-	see also 15879 line
36122	INPPL1	NM_001567.2	2626	acaaatttggtcgtatagagct	196790	-	see also 15879 line
36123	INPPL1	NM_001567.2	1909	gacggctcgggggaacccaaact	196776	-	see also 15879 line
36124	MINPP1	NM_004897.2	644	ggcggacgtcgcagatagaggt	196802	-	see also 15880 line
36125	MINPP1	NM_004897.2	140	ctcgtcgtcagccctatttctg	196798	-	see also 15880 line
36126	ACP2	NM_001610.1	112	cccgaggtctcgtctcgtacc	196821	-	see also 15881 line
36127	ACP2	NM_001610.1	277	agcgtatcacggctccttaaac	196827	-	see also 15881 line
36128	ACP5	NM_001611.2	402	tacgtgtagccggaaacccatga	196844	-	see also 15882 line
36129	ACP5	NM_001611.2	1016	ctcgggcaagctccctcttaaga	196850	-	see also 15882 line
36130	ACP6	NM_016361.2	732	agctgtgtgtccgaaccatatt	196856	-	see also 15883 line
36131	ACP6	NM_016361.2	756	tccttagactctcaatccatg	196859	-	see also 15883 line

図46 (続き)

36132	FLJ20331	NM_017768.3	641	tcacgtctgtgcgacacaaatct	196883	-	see also 7149 line
36133	FLJ20331	NM_017768.3	647	ctgtgtgcgacacaaatctttctag	196886	-	see also 7149 line
36134	FLJ23751	NM_152282.1	1367	aacattccgtccgacattctttac	196963	-	see also 15886 line
36135	FLJ23751	NM_152282.1	901	cagtaacctctacagtttgaanaa	196954	-	see also 15886 line
36136	KIAA0377	NM_014659.1	2612	ttcgaagcgtctctatttacc	196996	-	see also 5829 line
36137	KIAA0377	NM_014659.1	2808	cagtttgacgcgtctctattt	196994	-	see also 5829 line
36138	KIAA0433	NM_015216.1	2950	aacgtcatgttctactagatta	197072	-	see also 6279 line
36139	KIAA0433	NM_015216.1	3980	tcacgggaagaccgtgaattt	197113	-	see also 6279 line
36140	FBP1	NM_000507.2	1039	atgtctgtactctactgaanaag	197110	-	see also 6279 line
36141	FBP1	NM_000507.2	1039	gagactgtgtactgaatgaac	197131	-	see also 15889 line
36142	FBP1	NM_000507.2	404	aacgtgacaggtgataaagttaa	197119	-	see also 15889 line
36143	FBP2	NM_003837.2	320	atgttccaactctctactagtag	197133	-	see also 15890 line
36144	FBP2	NM_003837.2	705	atgagggtatgccaagtatttt	197139	-	see also 15890 line
36145	G6PC	NM_000151.1	959	ttcgcctcagctctattttagc	197161	-	see also 15891 line
36146	G6PC	NM_000151.1	730	cagcttgccatcgagttttatc	197158	-	see also 15891 line
36147	G6PC	NM_000151.1	731	agcttcgcatcgagttttatct	197159	-	see also 15891 line
36148	NT5C1A	NM_032526.1	809	ggctggagtgcccaattctgtacc	197176	-	see also 15892 line
36149	NT5C1A	NM_032526.1	404	tcggcctcaatcaacagtagtaaac	197170	-	see also 15892 line
36150	NT5C1B	NM_032523.1	945	atgttagactccgtgactatata	197183	-	see also 15893 line
36151	NT5C1B	NM_032523.1	715	ggagcttgcttctcaggaagaacc	197178	-	see also 15893 line
36152	NT5C2	NM_012229.2	234	agcctatcatcggtgttttga	197205	-	see also 15894 line
36153	NT5C2	NM_012229.2	1709	accagctgacacgggtcaattagt	197245	-	see also 15894 line
36154	NT5E	NM_002526.1	560	gtgggaatcgttggtatacaattc	197259	-	see also 1628 line
36155	NT5E	NM_002526.1	1313	gacctagtcaggttaaaagggttc	197284	-	see also 1628 line
36156	NT5M	NM_020201.2	563	aggagatggccagcgtctacaatac	197297	-	see also 15896 line
36157	NT5M	NM_020201.2	608	gccccataaagatgtcaagtac	197299	-	see also 15896 line
36158	NT5M	NM_020201.2	568	atggccagcctcacaatacaactga	197298	-	see also 15896 line
36159	GPD1	NM_001503.2	236	ttcaaatggcggtgttaactac	197303	-	see also 1032 line
36160	GPD1	NM_001503.2	579	ggctcatcggtgtgtgtttg	197314	-	see also 1032 line
36161	PLD1	NM_002662.1	2385	gcccgttaccgtccatgtgataga	197437	-	see also 15898 line
36162	PLD1	NM_002662.1	2384	cgccgttaccgtccatgtgataga	197436	-	see also 15898 line
36163	PLD2	NM_002663.2	917	ggcacggcgtgcggatcgataacc	197478	-	see also 1743 line
36164	PLD2	NM_002663.2	2638	ggaggaacgcgaataatctatga	197507	-	see also 1743 line
36165	PLD3	NM_012268.1	1050	ctcgaagactgacaaagatcttt	197514	-	see also 5246 line
36166	BPGM	NM_001724.3	652	ggcacggctgggaagcttaaaagg	197535	-	see also 15901 line
36167	BPGM	NM_001724.3	605	tacacagcccgaggtataaagt	197530	-	see also 15901 line
36168	PGAM2	NM_000290.1	668	cacggggatcccatgtgtatg	197552	-	see also 15902 line
36169	PGAM2	NM_000290.1	415	acgagaagcacccctactacaac	197551	-	see also 15902 line
36170	PON1	NM_000446.3	741	ttcacccgatggcaagtatgtct	197580	-	see also 351 line
36171	PON1	NM_000446.3	660	gtggctgtatgtgtctactata	197577	-	see also 351 line
36172	PON2	NM_000305.1	903	ttcgtgtatgacccgaacaatcc	197609	-	see also 15904 line
36173	PON2	NM_000305.1	705	atcaaatattcacctgatgataa	197604	-	see also 15904 line
36174	PON3	NM_000940.1	589	ttgatcttcgctggactatgt	197628	-	see also 15905 line
36175	PON3	NM_000940.1	58	atgttctcggcgttagagaag	197615	-	see also 15905 line

図46 (続き)

998

36176	PHP14	NM_014172.2	378	ctccgacggcgcttccaagtatg	197643	-	see also 15906 line
36177	PHP14	NM_014172.2	379	tcgcgacggcgcttccaagtatg	197644	-	see also 15906 line
36178	PDE6A	NM_000440.1	235	gacacggagaggaaatcgttatgg	197685	-	see also 348 line
36179	PDE6A	NM_000440.1	289	gagaggagaaatcatttctgatt	197652	-	see also 348 line
36180	PDE6B	NM_000283.1	1102	tcgcgtgacgaaatgttccaatt	197702	-	see also 15908 line
36181	PDE6B	NM_000283.1	1101	ttccgtgacgaaatgttccaat	197701	-	see also 15908 line
36182	PDE6C	NM_006204.2	928	ggcgtctacacgggttagatcata	197730	-	see also 4302 line
36183	PDE6C	NM_006204.2	926	aagcgtctacacgggttagatca	197729	-	see also 4302 line
36184	PDE6H	NM_002602.1	257	gacgaatcctcggaaatggaagg	197778	-	see also 15910 line
36185	PDE6H	NM_006205.1	174	gactcgcaaatcaaggatgaac	197782	-	see also 15911 line
36186	PDE6H	NM_006205.1	170	ggcagactcggcaatccaagagt	197781	-	see also 15911 line
36187	PDE4A	NM_006202.1	1974	ctcgtccggaggaaattctagg	197809	-	see also 15912 line
36188	PDE4A	NM_006202.1	1445	agcgcgagcgtggcatgaaatc	197799	-	see also 15912 line
36189	PDE4B	NM_002600.2	1214	ctcaaatagacccctcaacatgc	197836	-	see also 1680 line
36190	PDE4B	NM_002600.2	378	aacgcttcaagcattgctatta	197818	-	see also 1680 line
36191	PDE4C	NM_000923.1	1443	ctcagactggcgcttatgtaca	197862	-	see also 15914 line
36192	PDE4C	NM_000923.1	1521	ggcagagaactcgatattcttc	197865	-	see also 15914 line
36193	PDE4D	NM_006203.2	463	aagatcgagcaactagcaaaaga	197878	-	see also 4299 line
36194	PDE4D	NM_006203.2	1425	ggcatcgacttgcaacagatat	197899	-	see also 4299 line
36195	PDE7A	NM_002603.1	418	ttcaagagatatattagattctc	197928	-	see also 1682 line
36196	PDE7A	NM_002603.1	1282	tgcgactgcaactgaattctat	197964	-	see also 1682 line
36197	PDE7A	NM_002603.1	1283	ggcatcgcaactgaattctatt	197965	-	see also 1682 line
36198	PDE1C	NM_005020.1	1573	ggcgtgagttgaaatagcgc	198014	-	see also 3511 line
36199	PDE1C	NM_005020.1	1643	gggaagtcccgcatcaacaatt	198017	-	see also 3511 line
36200	PDE3A	NM_000921.2	2556	tgtctctcaggcgctgtctatata	198074	-	see also 599 line
36201	PDE3A	NM_000921.2	535	ggcgtcggggaggagatcactact	198028	-	see also 599 line
36202	PDE2A	NM_002599.1	2518	tgggtctacgacccgaaacaacaaag	198106	-	see also 15919 line
36203	PDE2A	NM_002599.1	1094	cacctccgaggatgtacaacagc	198094	-	see also 15919 line
36204	PDE11A	NM_016953.2	2722	aacctcgtgatatattcgatc	198160	-	see also 15920 line
36205	PDE11A	NM_016953.2	2338	cagctgatttcggatgttaac	198145	-	see also 15920 line
36206	PDE6D	NM_002601.1	519	aactgggaacgttatcaatagaaa	198178	-	see also 15921 line
36207	PDE6D	NM_002601.1	181	atcctgaggggcttcaactaaa	198171	-	see also 15921 line
36208	CNP	NM_033133.3	941	tacgtcaacaagatgtgttaaa	198186	-	see also 15922 line
36209	CNP	NM_033133.3	1168	gacggccttgacctcttagaga	198187	-	see also 15922 line
36210	PLCB1	NM_015192.2	3290	cagagatgatccggtatatac	198263	-	see also 6273 line
36211	PLCB2	NM_004573.1	2244	agcgtgcacaactatgtagaagt	198296	-	see also 15924 line
36212	PLCB2	NM_004573.1	549	ggcgtactggcccttagtcaaca	198273	-	see also 15924 line
36213	PLCB3	NM_000932.1	1827	ctgaaccggggccctcattgtct	198326	-	see also 15925 line
36214	PLCB3	NM_000932.1	2523	cacgaagcctcggactacattc	198330	-	see also 15925 line
36215	PLCB4	NM_000933.2	2015	ggcggatcggtatccagtaatta	198399	-	see also 606 line
36216	PLCB4	NM_000933.2	2349	tcggaactcgcatgggtatgaat	198414	-	see also 606 line
36217	PLCE1	NM_016341.2	1194	agcggatcaactttgttagcagg	198477	-	see also 6825 line
36218	PLCE1	NM_016341.2	1190	aaggagcgatcacatttgttagt	198476	-	see also 6825 line
36219	PLCL1	NM_006226.1	1230	agcgttgaactcgatgtgaatga	198643	-	see also 15928 line

図 46 (続き)

36220	PLCL1	NM_006226.1	2182	cagcggattgttcggaacaaaga	198679	-	see also 15928 line
36221	PLCL2	NM_015184.2	520	tgtgtgttttcgttcataatg	198714	-	see also 15929 line
36222	PLCL2	NM_015184.2	1076	tccatagacgggttcactaatta	198726	-	see also 15929 line
36223	FLJ11323	NM_018390.1	794	acctgtgcgtgtatcaagaac	198783	-	see also 15930 line
36224	FLJ11323	NM_018390.1	530	gcctgtcgtgtgaatgttcc	198780	-	see also 15930 line
36225	FLJ31579	NM_153268.1	1281	cacaagtgtgcgaactaatcc	198797	-	see also 15931 line
36226	FLJ31579	NM_153268.1	938	atgcgcagccagagatctcttc	198790	-	see also 15931 line
36227	FLJ37451	NM_182569.1	573	cactccattaaactgatataca	198814	-	see also 15932 line
36228	FLJ37451	NM_182569.1	141	gtcgtccactcggctttttacc	198799	-	see also 15932 line
36229	KIAA1434	NM_019593.2	776	atccttaataagcgacaatgagt	198851	-	see also 7721 line
36230	KIAA1434	NM_019593.2	872	gacgatgaacacagataaacctgg	198852	-	see also 7721 line
36231	MGC4171	NM_024307.1	559	gccgcagtcgggctaaacagg	198905	-	see also 15934 line
36232	MGC4171	NM_024307.1	722	accctagagcgtagagataaag	198908	-	see also 15934 line
36233	MIR16	NM_016841.3	933	ctcgattggagcatcataatat	198945	-	see also 6965 line
36234	MIR16	NM_016841.3	489	gtcttaatcaagataaacacagt	198924	-	see also 6965 line
36235	OBDF	NM_017711.2	1250	gacgtacacagcattagaagagc	198969	-	see also 7122 line
36236	PI1665	NM_030792.4	847	accagcgtcccatgatgatacc	198982	-	see also 15937 line
36237	PI1665	NM_030792.4	846	taccagcgtcccatgatgatcc	198981	-	see also 15937 line
36238	SMPD3	NM_018667.1	408	ctcacctccagggtaacaacc	198993	-	see also 7539 line
36239	SMPD3	NM_018667.1	829	ggccagagcccaacacataatca	198996	-	see also 7539 line
36240	TDP1	NM_018319.2	869	gacgtggactggctcgttaaaaca	199014	-	see also 7400 line
36241	TDP1	NM_018319.2	873	tggactggctcgttaaacagtat	199015	-	see also 7400 line
36242	LENG5	NM_024075.1	759	ccacagagctgcgtacagtatc	199058	-	see also 15940 line
36243	LENG5	NM_024075.1	717	ggcgtgtccagctaaagactgg	199057	-	see also 15940 line
36244	LENG5	NM_024075.1	984	ttctccgcagcctgatggtaagg	199062	-	see also 15940 line
36245	MGC2776	NM_025265.2	1717	ctgagatgaggggtttcttcacg	199103	-	see also 8888 line
36246	MGC2776	NM_025265.2	1328	aggagcctttaacogtagtggaag	199084	-	see also 8888 line
36247	POPI	NM_015029.1	1551	cagttggggatcctcgaataaat	199146	-	see also 6198 line
36248	POPI	NM_015029.1	584	atgaaccggagcgtagaatttaa	199118	-	see also 6198 line
36249	RNASEP1	NM_006638.1	381	ttcagaagaatcgacaatgatgt	199181	-	see also 15943 line
36250	RNASEP1	NM_006638.1	8	ctggaccctattactttgtgaag	199174	-	see also 15943 line
36251	RPP20	NM_005837.1	363	gtgctctgagatctacattcaacg	199195	-	see also 15944 line
36252	RPP20	NM_005837.1	474	ctccaccgtggagcttgttgatg	199197	-	see also 15944 line
36253	RPP30	NM_006413.2	891	ggcatatgaagtggcaaatctag	199212	-	see also 15945 line
36254	RPP30	NM_006413.2	778	gactccacaatgagaagggtatc	199209	-	see also 15945 line
36255	RPP38	NM_006414.1	105	gtcttgaaacacccatacatca	199216	-	see also 15946 line
36256	RPP38	NM_006414.1	542	ccccgtcattggcttaaaatgt	199228	-	see also 15946 line
36257	DLAD	NM_021233.2	721	cagtcggcccgagggacaaaatt	199265	-	see also 15947 line
36258	DLAD	NM_021233.2	486	tcgggaagaaggctatgattatc	199260	-	see also 15947 line
36259	APEX2	NM_014481.2	567	ggcctgagcggctagtctttaag	199283	-	see also 15948 line
36260	APEX2	NM_014481.2	296	cgaacccgtagcggctatctctgg	199278	-	see also 15948 line
36261	ElcA-BP1	NM_020695.2	3342	cacggacgtgcacgtggtttatg	199347	-	see also 15949 line
36262	ElcA-BP1	NM_020695.2	550	ccgggacggcagggcctattaag	199339	-	see also 15949 line
36263	FLJ12484	NM_022767.2	843	gggcactcatcagtagaagatgc	199353	-	see also 15950 line

図46 (続き)

1000

36264	FLJ12484	NM_022767.2	616	tggccacagaaagagatccttaag	193349	-	see also 15950 line
36265	FLJ12671	NM_030980.1	402	cccttagcagggcgccctaagtgc	193358	-	see also 15951 line
36266	FLJ12671	NM_030980.1	855	ggctgatgatgacatgtgaact	193366	-	see also 15951 line
36267	ISG20	NM_002201.4	764	aacgatggagctctataaatct	193379	-	see also 15952 line
36268	ISG20	NM_002201.4	761	ggcaacgatggagctctataaaa	193378	-	see also 15952 line
36269	MGC16943	NM_080663.1	63	cggcgagcttgagataattagg	193380	-	see also 15953 line
36270	MGC16943	NM_080663.1	89	aagtaaatggcgccagcaaatgg	193382	-	see also 15953 line
36271	DFFA	NM_004401.1	289	gtctaccttccataactaagttt	199409	-	see also 15954 line
36272	DFFA	NM_004401.1	285	ctgtctctacttccactactaa	199407	-	see also 15955 line
36273	DFFB	NM_004402.1	287	cacggagctgacggagagattact	199422	-	see also 15955 line
36274	DFFB	NM_004402.1	387	ggcgcttctctcagtgcaattta	199423	-	see also 15955 line
36275	KIAA0218	NM_014760.1	2586	ttgcatacggctccgagagattgc	199463	-	see also 15956 line
36276	KIAA0218	NM_014760.1	1635	cggagccgatgagtgattattc	199447	-	see also 15956 line
36277	PLA2G13	NM_032562.1	397	cacttgccgagcccaaatatct	199473	-	see also 15957 line
36278	PLA2G13	NM_032562.1	171	ccgtcaatagctactctcgattct	199469	-	see also 15957 line
36279	PLA2G4A	NM_024420.1	1805	tgccttatcccttgactactgaga	199523	-	see also 8618 line
36280	PLA2G4A	NM_024420.1	1225	atggctccgacttatttggaag	199503	-	see also 8618 line
36281	PLA2G6	NM_003560.1	1459	ccaccagatcagcctaacaacc	199551	-	see also 2367 line
36282	PLA2G6	NM_003560.1	1458	ccccacgatcagcctaacaacc	199550	-	see also 2367 line
36283	PLA2G6	NM_003560.1	367	ggctgaacccctgattgttcc	199540	-	see also 2367 line
36284	PRDX6	NM_004905.2	352	cccatcctcgtatgaggaatgc	199566	-	see also 15960 line
36285	PRDX6	NM_004905.2	73	ggagacgtggctcccaacttga	199560	-	see also 15960 line
36286	OLC	NM_001828.4	121	tactgttctactgtgacaatca	199570	-	see also 15961 line
36287	OLC	NM_001828.4	124	tgttctactgtgacaatcaaaag	199572	-	see also 15961 line
36288	LYPLA1	NM_006330.2	658	gtctatcgtgtgtgctaataga	199588	-	see also 15962 line
36289	LYPLA1	NM_006330.2	663	atcgtgtgtgttaataagatat	199589	-	see also 15962 line
36290	LYPLA1	NM_006330.2	737	tgttcttcttactggtgaaaaac	199593	-	see also 15962 line
36291	MGLL	NM_007283.3	1257	ctctgccatcgccctatgtgaca	199597	-	-
36292	PLA1A	NM_015900.1	354	ttctgctgcaacgaatgctaat	199604	-	see also 15963 line
36293	PLA1A	NM_015900.1	358	ggctgcaacgaatgctaatgtga	199606	-	see also 15963 line
36294	cPLA2delta	NM_178034.1	361	agctgcaacgaatgctactgtgc	199623	-	-
36295	cPLA2delta	NM_178034.1	103	aagccatctggagcaacatttgc	199622	-	-
36296	PLA2G4B	NM_005090.1	155	gccccaacaggcggtgcatattc	199626	-	see also 36294 line
36297	PLA2G4B	NM_005090.1	1682	tggattgctctctacacacc	199635	-	see also 15964 line
36298	PLA2G4C	NM_003706.1	1377	atgggggacccactcacacttcc	199663	-	see also 15965 line
36299	PLA2G4C	NM_003706.1	1413	tggcatccggagcaagaataatga	199665	-	see also 15965 line
36300	C11orf11	NM_006133.1	1864	caccggcgagcactaactatgc	199674	-	see also 15966 line
36301	C11orf11	NM_006133.1	1227	ctgcatgatcgctgctatgaaa	199671	-	see also 15966 line
36302	LOC22195	NM_139179.1	734	gaccatactcgggtgcttttct	199700	-	see also 15967 line
36303	LOC22195	NM_139179.1	735	accatactcgggtgcttttctog	199701	-	see also 15967 line
36304	PNLIP	NM_000936.1	388	ggctcccgaaatgcatcacaca	199725	-	see also 15968 line
36305	PNLIP	NM_000936.1	1303	gtggagcatccgaagattatagt	199747	-	see also 15968 line
36306	PNLIPRP1	NM_006229.1	1124	ggcactgctcagatcaaatgtgc	199764	-	see also 15969 line
36307	PNLIPRP1	NM_006229.1	473	gacatctcttgcagagattatag	199757	-	see also 15969 line

図46 (続き)

1001

36308	PNLIPRP2	NM_005396.3	431	ggcggagacagcttcttaata	199778	-	see also 3766 line
36309	PNLIPRP2	NM_005396.3	909	ctgtgctctctacgtgagtttc	199786	-	see also 3766 line
36310	AOAH	NM_001637.1	1355	gactatccgccatcggtatata	199827	-	see also 1083 line
36311	AOAH	NM_001637.1	1950	atcggttaaccccccagattaaa	199838	-	see also 1083 line
36312	APOC2	NM_000483.3	295	gcccgtctgtagatgagaaactca	199840	-	see also 15972 line
36313	LIPA	NM_000235.1	1088	gtctacagctcaatcttact	199866	-	see also 15973 line
36314	LIPA	NM_000235.1	1083	cagatgtctacagctgaatc	199864	-	see also 15973 line
36315	ACHE	NM_000665.2	1181	aagatgagggctgctgattttct	199877	-	see also 15974 line
36316	ACHE	NM_000665.2	383	cagagtgctctgctacacattgt	199872	-	see also 15974 line
36317	BCHE	NM_000055.1	1114	tccgaccgtggatgggtattttc	199920	-	see also 29 line
36318	BCHE	NM_000055.1	639	tggtctgggttgaaagattatt	199899	-	see also 29 line
36319	CACH-1	NM_130767.1	850	ggcagaggcgtcacatcacagt	199965	-	see also 9547 line
36320	CACH-1	NM_130767.1	1234	atgctctgttctgactttaca	199973	-	see also 9547 line
36321	CEL	NM_001807.2	369	cccgaggacctggcgttatgac	199989	-	see also 15977 line
36322	CEL	NM_001807.2	550	cgccaatctgcacggtaactatg	199992	-	see also 15977 line
36323	GES1	NM_001266.3	1284	cagacacactgtcaaaaagaaa	200002	-	see also 15978 line
36324	GES1	NM_001266.3	1222	tccctgttgcattgctaagg	200001	-	see also 15978 line
36325	GES2	NM_003869.4	1318	ggcggagctgttcacatgaagg	200004	-	see also 15979 line
36326	GES2	NM_003869.4	2425	ggcgactactatgttgatcc	200020	-	see also 15979 line
36327	ESD	NM_001984.1	433	agccctcgtggctgcacataaa	200031	-	see also 15980 line
36328	ESD	NM_001984.1	434	ggcctcgtggctgcaataaa	200032	-	see also 15980 line
36329	NTE	NM_006702.2	2534	gtccagcgtactctctaacagt	200057	-	see also 15981 line
36330	NTE	NM_006702.2	2084	acgcgtcgtactgcaactacac	200052	-	see also 15981 line
36331	NTE	NM_006702.2	2643	tgccacccgtactctactacc	200061	-	see also 15981 line
36332	PTE1	NM_005489.2	547	acccatgtgaccgtatttaag	200080	-	see also 15982 line
36333	PTE1	NM_005489.2	678	ggagaatggagcccaaacagatgt	200083	-	see also 15982 line
36334	THEA	NM_015547.2	1155	tccgctggacaggaagtagatc	200089	-	see also 6461 line
36335	ZAP128	NM_006821.3	1127	ggcaatgttgggggaaccttaag	200105	-	see also 15984 line
36336	ZAP128	NM_006821.3	1342	ggatgagttctatgctaatgagg	200110	-	see also 15984 line
36337	PAFAH1B1	NM_000430.2	1637	ccctacgcgtatggagattacaag	200143	-	see also 336 line
36338	PAFAH1B1	NM_000430.2	1640	tacgcgtatgggattacaagac	200144	-	see also 336 line
36339	PAFAH1B2	NM_002572.1	454	atcgaggccattgtacaacttat	200156	-	see also 1654 line
36340	H6PD	NM_004285.1	1592	tgagatcgagccattgtacaac	200154	-	see also 1654 line
36341	H6PD	NM_004285.1	1592	cagccctctgctgattactacg	200187	-	see also 15988 line
36342	H6PD	NM_004285.1	1369	tgagctacgtcgcagcttctgttc	200185	-	see also 15988 line
36343	PGLS	NM_012088.1	644	agctgttctgaagcgcatttgg	200196	-	see also 15988 line
36344	HIBCH	NM_014362.2	108	ctcatgctggggttaattgcat	200200	-	see also 15990 line
36345	HIBCH	NM_014362.2	216	tgccaggagctacaactaaa	200205	-	see also 15990 line
36346	PPT1	NM_000310.1	549	gctctgtgcaagccggaatactgg	200246	-	see also 15991 line
36347	PPT1	NM_000310.1	523	ggcgtactcacaagtgttcagg	200245	-	see also 15991 line
36348	PPT1	NM_000310.1	403	acctccatgataactctgatct	200241	-	see also 15991 line
36349	PPT2	NM_005155.5	1047	acctctatcggtatgctatgac	200257	-	see also 3622 line
36350	PPT2	NM_005155.5	999	gagacacggactactggaagtgg	200256	-	see also 3622 line
36351	HAGH	NM_005326.3	541	ccctgaccgacaactacatgtac	200266	-	see also 15993 line

1002

図46 (続き)

36352	HAGH	NM_005326.3	539	tgccctgaccgacaaactacatgt	200265	-	see also 15993 line	cerebroside-sulfatase	cerebral sclerosis(汎発性脳硬化症)、metachromatic leukoencephalopathy(白質脳症)、sulfatide lipidoses(異染性白質ジストロフィー)、metachromatic leukodystrophy(異染性)
36353	ARSA	NM_000487.3	1516	gacagagtcctgagggtttttgc	200275	-	-	-	-
36354	ARSA	NM_000487.3	1536	tgctgtcggaactggaaagtaca	200276	-	see also 36353 line	-	-
36355	ARSB	NM_000046.2	1593	taccagatccgtacaggtttaca	200278	-	see also 15994 line	-	-
36356	ARSB	NM_000046.2	1814	ttccatgaacgcgtgtacattaa	200283	-	see also 15994 line	-	-
36357	ARSD	NM_001669.1	161	aagaagtgtgaacctaaactgc	200309	-	see also 15995 line	-	-
36358	ARSD	NM_001669.1	262	tacactggaagcccggaatttg	200316	-	see also 15995 line	-	-
36359	ARSE	NM_000047.1	1127	cacggaggttccctagagaatca	200356	-	see also 15996 line	-	-
36360	ARSE	NM_000047.1	120	tgctgctgtactgctaagtig	200339	-	see also 15996 line	-	-
36361	ARSF	NM_004042.3	618	ccctctgctaacaggaattagc	200378	-	see also 15997 line	-	-
36362	ARSF	NM_004042.3	338	cggcttctgacgggaagatacc	200368	-	see also 15997 line	-	-
36363	ARSF	NM_004042.3	868	ctgaacgagctggatccattatg	200380	-	see also 15997 line	-	-
36364	GALNS	NM_000512.2	821	gacgcgtccggagagattgatga	200411	-	see also 15998 line	-	-
36365	GALNS	NM_000512.2	214	cagagagaccccaatttggacc	200403	-	see also 15998 line	-	-
36366	STS	NM_000351.2	1519	aagccaacgctccgacatgagt	200446	-	see also 15999 line	-	-
36367	STS	NM_000351.2	289	agcatcaagggccgaacatcacc	200417	-	see also 15999 line	-	-
36368	IDS	NM_000202.2	990	tcctggcgttgggtatcataag	200476	-	see also 160 line	-	-
36369	IDS	NM_000202.2	779	ccgtatagctgtcttttccacc	200469	-	see also 160 line	-	-
36370	GNS	NM_002076.1	1230	tgctgctacgacctaataaaga	200528	-	see also 1340 line	-	-
36371	GNS	NM_002076.1	1234	ggctagacactaaataagacaca	200530	-	see also 1340 line	-	-
36372	DKFZp313 G1735	NM_198150.1	239	tccttcgatgaaggttaacatt	200548	-	see also 16002 line	-	-
36373	G1735	NM_198150.1	1119	caaatgttcccttttgatgatg	200581	-	see also 16002 line	-	-
36374	KIAA1001	NM_014960.1	1050	gagtgccctccctctttatga	200605	-	see also 16003 line	-	-
36375	KIAA1001	NM_014960.1	1916	tgacagcgtctctccaagacattg	200613	-	see also 16003 line	-	-
36376	SGSH	NM_000199.2	399	gaccgtgtaccggttgactttg	200616	-	see also 159 line	-	-
36377	SULF1	NM_015170.1	1336	tcacctagggccggttgatgg	200641	-	see also 6263 line	-	-
36378	SULF1	NM_015170.1	2338	ttccttgcctgctgaatttgaag	200664	-	see also 6263 line	-	-
36379	SULF1	NM_015170.1	1335	atccccatagggccggttatgatg	200640	-	see also 6263 line	-	-
36380	SULF2	NM_018837.2	1877	ccggacgcgcggaaacactcttc	200705	-	see also 16006 line	-	-
36381	SULF2	NM_018837.2	1511	ggccggtgaatcgggttcactttg	200699	-	see also 16006 line	-	-
36382	G14orf126	NM_080664.1	501	gacacacggacacattccaca	200725	-	see also 16007 line	-	-
36383	C14orf126	NM_080664.1	351	caactaactcttgaaagaaga	200722	-	see also 16007 line	-	-
36384	FLJ11106	NM_018324.1	1071	atctctgcaagagaaattaatc	200760	-	see also 16008 line	-	-
36385	FLJ11106	NM_018324.1	916	cactctaacgtaccattcttaagg	200753	-	see also 16008 line	-	-
36386	HARS2	NM_080820.3	486	aaatatacagggccggagcttatca	200775	-	see also 16009 line	-	-
36387	HARS2	NM_080820.3	271	cacatgtctcgaaagattctaaa	200769	-	see also 16009 line	-	-
36388	HARS2	NM_080820.3	473	agcaggtcgtaaacacatcagg	200774	-	see also 16009 line	-	-
36389	HYAL2	NM_003773.2	357	ggctgtatcaacgcttcgattct	200785	-	see also 16010 line	-	-
36390	HYAL2	NM_003773.2	891	ggcatggccgcaacttggagc	200790	-	see also 16010 line	-	-

図46 (続き)

1003

36391	HYAL3	NM_003549.2	505	ctcgccctctatccctacttgg	200795	-	see also 16011 line
36392	HYAL3	NM_003549.2	766	cagctctacaaggccctacttgg	200796	-	see also 16011 line
36393	MGEA5	NM_012215.1	1673	aaccgtagtacaacacagtttacc	200839	-	see also 5203 line
36394	MGEA5	NM_012215.1	848	atccacattgaacgtaaatgg	200811	-	see also 5203 line
36395	SPAM1	NM_003117.3	646	acgggcaagggtttacaatt	200876	-	see also 16012 line
36396	SPAM1	NM_003117.3	645	caccgggcaagggtttacaatt	200875	-	see also 16012 line
36397	HEXA	NM_000520.2	224	ggcctatgtgacctgttttgg	200913	-	see also 16013 line
36398	HEXA	NM_000520.2	433	tccgaggtctggagacttttagc	200916	-	see also 16013 line
36399	HEXB	NM_000521.2	358	ggggaagcgtttcgacatcca	200937	-	see also 16014 line
36400	HEXB	NM_000521.2	1324	ccgggcacaaatgttgagtg	200964	-	see also 16014 line
36401	NAGPA	NM_016256.1	604	gtcgtggctggtatcgtatgg	200977	-	see also 16015 line
36402	NAGPA	NM_016256.1	607	gtgtggctggtatcgtatgg	200978	-	see also 16015 line
36403	NAGLU	NM_000263.2	1925	atctgtacacccgatctgtgt	200995	-	see also 206 line
36404	NAGLU	NM_000263.2	1270	ggcgcacactttcaatgagatgc	200987	-	see also 206 line
36405	NAGA	NM_000282.1	669	ggcgggacatgggctacacatcc	201002	-	see also 16017 line
36406	NAGA	NM_000282.1	670	ggcggacatgggctacacatcc	201003	-	see also 16017 line
36407	MAN2A1	NM_002372.1	1705	agggtctggatgctactagatca	201052	-	see also 1525 line
36408	MAN2A1	NM_002372.1	760	ggaggtatgctcgaaaagtcca	201023	-	see also 1525 line
36409	MAN2A1	NM_002372.1	1707	ggctcggatgctactagatcgt	201053	-	see also 1525 line
36410	MAN2A2	NM_006122.1	1556	tgccgacccgggagagatcatt	201150	-	see also 16019 line
36411	MAN2A2	NM_006122.1	1555	atcgagaccgggagagatcatt	201149	-	see also 16019 line
36412	MAN2B1	NM_000528.1	2137	ccatcgcgggcaacgtttgatcc	201194	-	see also 16020 line
36413	MAN2B1	NM_000528.1	2230	ttctgtgtaaacacccagtatagg	201199	-	see also 16020 line
36414	MAN2C1	NM_006715.1	2557	agcgacctaccacctacatcc	201229	-	see also 16021 line
36415	MAN2C1	NM_006715.1	1016	tgctgctcgtggcagtttggc	201219	-	see also 16021 line
36416	MANBA	NM_005908.2	1768	tgccgctcctcagtagataga	201282	-	see also 16022 line
36417	MANBA	NM_005908.2	1503	caatgacccggccaatctacatca	201272	-	see also 16022 line
36418	GAA	NM_000152.2	1191	ctcgtgctcctcgcagtatcca	201309	-	see also 16023 line
36419	GAA	NM_000152.2	1862	agccgctgattggggaaggtatgg	201316	-	see also 16023 line
36420	MGAM	NM_004668.1	1195	cacctcagctgctacgaatagg	201359	-	see also 16024 line
36421	MGAM	NM_004668.1	1193	ttcacctcagctgctacgaat	201358	-	see also 16024 line
36422	SI	NM_001041.1	529	atcgtttccgggttaagattact	201448	-	see also 16025 line
36423	SI	NM_001041.1	3373	ctcgctgccaatagaatata	201543	-	see also 16025 line
36424	SI	NM_001041.1	5023	ctcggtgtttgactaccatcca	201592	-	see also 16025 line
36425	GCS1	NM_006302.1	959	tggtaaagatgtgcctaaatagg	201820	-	see also 16026 line
36426	GCS1	NM_006302.1	270	ggccgtcgtgtcctcgttgg	201616	-	see also 16026 line
36427	AGL	NM_000028.1	3465	agcagatccacgttacccttacc	201733	-	see also 16027 line
36428	AGL	NM_000028.1	575	ttcogattaggcccaacttaca	201629	-	see also 16027 line
36429	KIAA1128	NM_018999.1	1616	gaggtctctccctatagaatct	201814	-	see also 16028 line
36430	KIAA1128	NM_018999.1	662	atggcccaagggttaacttctact	201781	-	see also 16028 line
36431	NEU1	NM_000434.2	627	tgccctacacatgtttgtatagg	201830	-	see also 16029 line
36432	NEU1	NM_000434.2	408	ttgtctgagcggagaaatgtcc	201825	-	see also 16029 line
36433	NEU2	NM_005383.1	1055	gtctgtacgaagccaatgtacc	201842	-	see also 16030 line
36434	NEU2	NM_005383.1	532	gcctacgcctaccggaaacttca	201840	-	see also 16030 line

図 46 (続き)

1004

36435	NEU3	NM_006656.4	913	tcgggcttcgggaatgagacc	201848	-	see also 16031 line
36436	NEU3	NM_006656.4	1553	tcctgcgtactactactac	201854	-	see also 16031 line
36437	FLJ90231	NM_173581.1	877	gacgtacccctggcgatattgg	201887	-	see also 16032 line
36438	FLJ90231	NM_173581.1	330	gacccctactactactaaatga	201878	-	see also 16032 line
36439	GLB1	NM_000404.1	1375	gtccacgacgcagcatatgtgc	201917	-	see also 16033 line
36440	GLB1	NM_000404.1	1576	ctcagcgactggagcatctttcc	201925	-	see also 16033 line
36441	GLB1	NM_000404.1	1514	atgggtcatatacaacgatit	201922	-	see also 16033 line
36442	LOC11293	NM_138416.1	500	ccagcctagggttaattggtct	201933	-	see also 16034 line
36443	LOC11293	NM_138416.1	494	atcctccagcactgactgttaat	201932	-	see also 16034 line
36444	LOC99944	NM_138342.2	1428	gtccttcgggtacattctctatg	201950	-	see also 16035 line
36445	LOC89944	NM_138342.2	1648	cagcgcaagggttaattggaaa	201954	-	see also 16035 line
36446	GLA	NM_000169.1	716	tcgcacagtagtcaactactgg	201975	-	see also 141 line
36447	GLA	NM_000169.1	1136	ttgggtgacccgtcctctatcco	201987	-	see also 141 line
36448	GBE1	NM_000158.1	173	tgagatagacccttacttgaag	201993	-	see also 133 line
36449	GBE1	NM_000158.1	527	gcggagagatctgtatctgatt	202009	-	see also 133 line
36450	SLC3A1	NM_000341.2	873	ttgacgaagtcgcaaaccaatgt	202083	-	see also 16038 line
36451	SLC3A1	NM_000341.2	935	ttcgcacactctgatgttcaaga	202086	-	see also 16038 line
36452	SLC3A2	NM_002394.3	1336	agcctactcgaatccacaaga	202135	-	see also 16039 line
36453	SLC3A2	NM_002394.3	759	tgcgtgtgcctgtgttcaatcgc	202127	-	see also 16039 line
36454	LOC12953	NM_174898.1	375	gacgtcaagccctgaactactgt	202140	-	see also 16040 line
36455	LOC12953	NM_174898.1	601	tcaccaatctgggtataggagt	202144	-	see also 16040 line
36456	LYG2	NM_175735.3	674	caccatcagggacatagacaatg	202160	-	see also 16041 line
36457	LYG2	NM_175735.3	675	accocatggacatagacaatga	202161	-	see also 16041 line
36458	LYZ	NM_000239.1	260	agccgctactggttaattgatgg	202168	-	see also 16042 line
36459	LYZ	NM_000239.1	431	aacagagatgtccgtcagtatgt	202175	-	see also 16042 line
36460	PARG	NM_003631.1	2955	agctgtgtactactactacaat	202242	-	see also 2442 line
36461	PARG	NM_003631.1	2957	ctgtgtctacgatactacaatga	202243	-	see also 2442 line
36462	GUSB	NM_000181.1	1378	agcctgcgtccaccctagaatct	202253	-	see also 16044 line
36463	GUSB	NM_000181.1	1920	gacgagaggtgctgggggaataaa	202258	-	see also 16044 line
36464	HPSE	NM_006665.2	1396	ggcaagcgtgcaagggtcaaga	202296	-	see also 4713 line
36465	HPSE	NM_006665.2	1526	ttgggttacccctatcttttc	202306	-	see also 4713 line
36466	IDUA	NM_000203.2	810	gcccagcaggtaccactttctc	202317	-	see also 16046 line
36467	IDUA	NM_000203.2	813	acgacgtgtaccaactttctact	202318	-	see also 16046 line
36468	GBA	NM_000157.1	1409	accacattgggtcgtaactttg	202321	-	see also 16047 line
36469	GBA	NM_000157.1	1410	cccaattgggtcgtaactttgt	202322	-	see also 16047 line
36470	GBA	NM_000157.1	1431	gtcgacagctcccatcttttga	202323	-	see also 16047 line
36471	GALC	NM_000153.1	758	cgccaagcgttaccatgattgg	202340	-	see also 16048 line
36472	GALC	NM_000153.1	696	ttcgactggccttattgtaact	202337	-	see also 16048 line
36473	FUCA1	NM_000147.2	644	agcttcaagacactttgtaacagc	202391	-	see also 16049 line
36474	FUCA1	NM_000147.2	1170	ctcaaaagggtcggttttatg	202401	-	see also 16049 line
36475	TREH	NM_007180.1	1240	ggccggagcctgggttcgattacg	202418	-	see also 16050 line
36476	TREH	NM_007180.1	550	tggcagctgctttgttgattct	202417	-	see also 16050 line
36477	LOT	NM_002299.2	3325	atcacacgtacgatgagaatac	202508	-	see also 16051 line
36478	LOT	NM_002299.2	3915	gcctacaggtcgtgctataga	202514	-	see also 16051 line

図 46 (続き)

1005

36479	LCT	NM_002299.2	102	accgtggtctcttaaccaatga	202440	-	see also 16051 line
36480	CSMD1	NM_033225.1	474	cacggcgagcgcaataagatagac	202551	-	see also 9383 line
36481	CSMD1	NM_033225.1	6953	cctctgaaacgcgctatagctcc	202698	-	see also 9383 line
36482	G2AN	NM_014610.3	1457	ttgagcgcttggtcttctaagagg	202805	-	see also 5777 line
36483	G2AN	NM_014610.3	325	atgactcgggtcaaggattgatga	202789	-	see also 5777 line
36484	GBA3	NM_020973.2	1207	cactcaacgcctggagattttca	202872	-	see also 16054 line
36485	GBA3	NM_020973.2	976	tacaactcgtcttaactcaagtacc	202864	-	see also 16054 line
36486	KL	NM_004795.2	2071	atgagcctatacaaggaatatg	202913	-	see also 16055 line
36487	KL	NM_004795.2	266	tgcgtccatctgggatactgttca	202879	-	see also 16055 line
36488	LOC15283	NM_175737.2	1513	caccatccgcgcgaggtattttt	202998	-	see also 10149 line
36489	RIMS3	NM_014747.1	1051	cacctatataaagtttaacctgc	203021	-	see also 16057 line
36490	RIMS3	NM_014747.1	823	ctccgacggcagcgttcattcc	203017	-	see also 16057 line
36491	UNG	NM_003362.2	411	gagttcgggaaacccgtattttat	203022	-	see also 16058 line
36492	UNG	NM_003362.2	585	cacggcctcgttttagtttca	203031	-	see also 16058 line
36493	UNG2	NM_021147.1	1007	cagatccttctgttctctttagt	203040	-	uracil DNA N-glycosylase
36494	BST1	NM_004334.1	791	atcgagatctgggttatgcattga	203052	-	see also 16059 line
36495	BST1	NM_004334.1	687	tccacgtatctggaatgatttca	203049	-	see also 16059 line
36496	BST1	NM_004334.1	572	gactctggaactcgtattcaaatc	203046	-	see also 16059 line
36497	CD38	NM_001775.2	453	accgtactctgcaacaagattct	203068	-	see also 16060 line
36498	CD38	NM_001775.2	305	atgctgtcaagtacactgaatttc	203060	-	see also 16060 line
36499	ASML3B	NM_014474.1	1081	agccatcagggtgttcgaatatg	203095	-	see also 16061 line
36500	ASML3B	NM_014474.1	1082	gccatccgggtgttcgaatatga	203096	-	see also 16061 line
36501	ASML3B	NM_014474.1	997	ccccataagcccatctgttcatca	203093	-	see also 16061 line
36502	CTBS	NM_004388.1	277	tgtacagctactcaaaaggagc	203102	-	see also 16062 line
36503	CTBS	NM_004388.1	857	gagtcacagtgccctacaaaacg	203125	-	see also 16062 line
36504	CTBS	NM_004388.1	866	tgcctcaaaaacagatcatgaag	203127	-	see also 16062 line
36505	FLJ21865	NM_022759.1	210	gacccctgcagttagattatta	203141	-	see also 16063 line
36506	FLJ21865	NM_022759.1	896	ctgcgacggcttcttactaact	203145	-	see also 16063 line
36507	SMPDL3A	NM_006714.2	509	tgcctgggtaactcatgactatt	203163	-	see also 16064 line
36508	SMPDL3A	NM_006714.2	708	tacggcccaaatataatgacact	203176	-	see also 16064 line
36509	SMPDL3A	NM_006714.2	1190	gacccagacactacgacattgaag	203197	-	see also 16064 line
36510	TDG	NM_003211.2	845	gccacgaatagcaggttttaatg	203222	-	see also 16065 line
36511	TDG	NM_003211.2	844	agccacgaatagcaggttttaat	203221	-	see also 16065 line
36512	PIGL	NM_004278.2	725	ctcccggtacatgagaatcaact	203244	-	see also 16066 line
36513	PIGL	NM_004278.2	727	cccggtacatgagaatcaactca	203245	-	see also 16066 line
36514	PIGL	NM_004278.2	314	ctccagtgtaattgattatgaca	203237	-	see also 16066 line
36515	ASAH1	NM_004315.2	1317	accgtatacaaacacttgataga	203270	-	see also 16067 line
36516	ASAH1	NM_004315.2	566	gggtattgcgcgttgatttata	203256	-	see also 16067 line
36517	AGA	NM_000027.2	473	aagtattgggttttatcaatgaag	203281	-	see also 16068 line
36518	AGA	NM_000027.2	187	cagcgtgagagcattgacatct	203276	-	see also 16068 line
36519	ASRGL1	NM_025080.2	646	tccacagggcgggtatgttaataa	203306	-	see also 16069 line
36520	ASRGL1	NM_025080.2	650	caggcgggtatgttataataaag	203308	-	see also 16069 line
36521	C2orf13	NM_017714.1	386	cagggaatggggtatctatctaat	203323	-	see also 7123 line

1006

図46 (続き)

36522	C20orf13	NM_017714.1	387	aggatggagctaatctaatc	203324	-	see also 7123 line
36523	ASPA	NM_000049.1	1009	atgaggccgcatattacgaaaag	203370	-	see also 17 line
36524	ASPA	NM_000049.1	1012	aggccgcattattacgaaaagaaa	203371	-	see also 17 line
36525	ASPA	NM_000049.1	1013	ggccgcattattacgaaaagaaaag	203372	-	see also 17 line
36526	GA	NM_013267.2	1245	tgccatcgctattctcaagg	203390	-	see also 16072 line
36527	GA	NM_013267.2	534	acgaatccctatccacaagtcca	203383	-	see also 16072 line
36528	GLS	NM_014905.2	1969	aacacgggagctatgattctaga	203453	-	see also 16073 line
36529	GLS	NM_014905.2	1972	agcgggagctatgattctagaaca	203455	-	see also 16073 line
36530	FLJ1204	NM_174912.2	193	ggccgagcagcttagtcttagg	203460	-	see also 16074 line
36531	FLJ1204	NM_174912.2	629	ctcttgccataacccaactgtat	203468	-	see also 16074 line
36532	FLJ1204	NM_174912.2	358	gacgtgaaccaaatgatcaatgg	203463	-	see also 16074 line
36533	QRSL1	NM_018292.2	1506	aaccaagggttgccaataggact	203529	-	see also 16075 line
36534	QRSL1	NM_018292.2	385	aaggttatataccacctataat	203497	-	see also 16075 line
36535	UPB1	NM_016327.1	342	tgccttcattagacgcataaagg	203536	-	see also 16076 line
36536	UPB1	NM_016327.1	570	cagcgagcagtaggagattttgt	203540	-	see also 16076 line
36537	VNN3	NM_018399.2	159	agcatgcgggtgatttaaccaac	203553	-	see also 7446 line
36538	VNN3	NM_018399.2	158	ggagcatgcgggtgatttaaccaaa	203552	-	see also 7446 line
36539	ADA	NM_000022.1	750	ggctcggccggaagtagtaaaaga	203583	-	see also 16078 line
36540	ADA	NM_000022.1	749	gggctcggccggaagtagtaaaag	203582	-	see also 16078 line
36541	ADA	NM_000022.1	748	tgggctcggccggaagtagtaaa	203581	-	see also 16078 line
36542	AMPD1	NM_000036.1	842	aaggaccttgtaagacctatacc	203615	-	see also 16079 line
36543	AMPD1	NM_000036.1	1884	gggtcccgctacagtaactgt	203639	-	see also 16079 line
36544	AMPD2	NM_004037.5	1643	aagtcacacacgagattttac	203663	-	see also 2728 line
36545	AMPD3	NM_000480.1	2593	tccgatagagaccttatgcaat	203711	-	see also 375 line
36546	AMPD3	NM_000480.1	771	accatcagcggagagattactgc	203682	-	see also 375 line
36547	ATIC	NM_004044.4	251	ctggaatcctagctcgtatatt	203720	-	see also 16082 line
36548	ATIC	NM_004044.4	1208	gtgtcgtcgacaaagtcattatt	203748	-	see also 16082 line
36549	GCH1	NM_000161.1	494	gtcctaaccgagctatatttga	203769	-	see also 16083 line
36550	GCH1	NM_000161.1	668	atctatagtagaagactcaaat	203776	-	see also 16083 line
36551	DDAH1	NM_012137.2	651	atcgcaattgggtctagtgaatc	203787	-	see also 5147 line
36552	DDAH1	NM_012137.2	712	accacgcgtacgacaaactcaat	203790	-	see also 5147 line
36553	DDAH2	NM_013974.1	610	ctccgaattgtgaaataggaga	203799	-	see also 16085 line
36554	DDAH2	NM_013974.1	444	ggggctacagctgctagaactgc	203797	-	see also 16085 line
36555	CRMP1	NM_001313.2	1654	agcgcgtcaaaatcaggactaag	203816	-	see also 16086 line
36556	CRMP1	NM_001313.2	291	aacgatgaccatccctttatgc	203800	-	see also 16086 line
36557	CRMP1	NM_001313.2	682	tgcaggacaaaggcgtcaattcc	203806	-	see also 16086 line
36558	DPYS	NM_001385.1	1219	gtgcaatagtgtaaaatggatga	203841	-	see also 16087 line
36559	DPYS	NM_001385.1	664	ttctctggttgcaaggaaattgg	203828	-	see also 16087 line
36560	DPYS2	NM_001386.3	798	agctaaccggattccagatttat	203861	-	see also 951 line
36561	DPYS3	NM_001387.1	1526	ccggtctccgactatgtctaca	203897	-	see also 954 line
36562	DPYS3	NM_001387.1	1040	cccaactactccggactacatca	203890	-	see also 954 line
36563	IGSF2	NM_004258.1	2333	ggcatcgggggcaaatcaactgt	203933	-	see also 16089 line
36564	IGSF2	NM_004258.1	2017	aggatagcgcgtcaacttaccaga	203923	-	see also 16089 line
36565	MGC35366	NM_152435.1	1295	tcccgatgggagcatttgatta	203958	-	see also 16090 line

図46 (続き)

1007

36566	MGC35366	NM_152435.1	1294	atccgagtgaggagcattgatt	203957	-	see also 16090 line
36567	MGC35366	NM_152435.1	1291	ttcatcccgatggagcattga	203956	-	see also 16090 line
36568	NIT1	NM_005600.1	955	tgccgaatagacacacacacac	203968	-	see also 3892 line
36569	NIT1	NM_005600.1	672	gtctagctgtctgtctgtacacatg	203966	-	see also 3892 line
36570	NIT1	NM_005600.1	244	gagccagacacagacacacacac	203962	-	see also 3892 line
36571	BTB	NM_000060.1	627	gtcgtgttcagcaataatagaac	203978	-	see also 35 line
36572	BTB	NM_000060.1	343	aggatgtacagattatagtgtt	203971	-	see also 35 line
36573	NIT2	NM_020202.2	115	ttcatcaacacagataacgaca	204003	-	see also 16093 line
36574	NIT2	NM_020202.2	169	aagcaagagagccaaatagttt	204005	-	see also 16093 line
36575	NIT2	NM_020202.2	625	acagcccatgtggagtgatctc	204013	-	see also 16093 line
36576	VNN1	NM_004666.1	32	agcttaactggcgaattttgttt	204017	-	see also 16094 line
36577	VNN1	NM_004666.1	1175	cactgtggaaggcgctattatc	204035	-	see also 16094 line
36578	VNN2	NM_004665.2	1421	atctgggcttatactaacagtg	204084	-	see also 16095 line
36579	VNN2	NM_004665.2	1415	tgatcatctggcctctatactaa	204083	-	see also 16095 line
36580	ABHD6	NM_020676.3	639	ctgcagctactcaactgacacaa	204103	-	see also 7915 line
36581	ABHD6	NM_020676.3	575	tgagggtatgtctgtcttactac	204101	-	see also 7915 line
36582	ABHD7	NM_173567.2	483	ctccattcatcagacagaattat	204117	-	see also 16097 line
36583	ABHD7	NM_173567.2	484	tccattcatcagacagaattata	204118	-	see also 16097 line
36584	ABHD8	NM_024527.2	1288	cacggcatgcacagataagttgt	204149	-	see also 16098 line
36585	ABHD8	NM_024527.2	1286	tccacggcatgcacagataagtt	204148	-	see also 16098 line
36586	ABHD9	NM_024794.1	460	gctcgtctgcacatgtctcgt	204150	-	see also 16099 line
36587	ABHD9	NM_024794.1	1243	aggagatgcacacagataagttgt	204155	-	see also 16099 line
36588	EPHX1	NM_000120.2	557	ctcctactggcgggaatgaattg	204159	-	see also 16100 line
36589	EPHX1	NM_000120.2	555	atctcctactggcgggaatgaatt	204158	-	see also 16100 line
36590	EPHX2	NM_001979.3	1123	ggcggtggccagcttttgataact	204205	-	see also 16101 line
36591	EPHX2	NM_001979.3	210	ggcactaacccggtcttgaaagg	204183	-	see also 16101 line
36592	MEST	NM_002402.2	711	cttggtcggcttaccataaaggt	204228	-	see also 16102 line
36593	MEST	NM_002402.2	709	atctggctggcttaccataaaga	204227	-	see also 16102 line
36594	AHCY	NM_000687.1	1023	gaccggtatcgtgttgaaagatgg	204244	-	see also 16103 line
36595	AHCY	NM_000687.1	1163	gtggaccatccacacacagtaac	204245	-	see also 16103 line
36596	AHCYL1	NM_006621.3	1461	cgcccaagtcggtgtcgtataaac	204270	-	see also 4682 line
36597	AHCYL1	NM_006621.3	1460	cggcaagtcggtgtcgtataaac	204269	-	see also 4682 line
36598	KIAA0828	NM_015328.1	922	tggtgtgtatogataatgtgt	204302	-	see also 6366 line
36599	KIAA0828	NM_015328.1	1548	ggaggtgagatctcaagttgacc	204324	-	see also 6366 line
36600	FAH	NM_000137.1	458	tacaaactgggaatcatgttca	204333	-	see also 16106 line
36601	FAH	NM_000137.1	606	gactataagccctccgtatattg	204334	-	see also 16106 line
36602	FAH	NM_000137.1	455	tgctaccacagctgggaatcatgt	204332	-	see also 16106 line
36603	GPAAT	NM_003801.2	446	gaccacagcgtctatattgtgt	204345	-	see also 16107 line
36604	GPAAT	NM_003801.2	223	cactgaccacagcacttacaatg	204344	-	see also 16107 line
36605	AADAC	NM_001086.1	501	tcgtgtgtatcaaccactacaga	204364	-	see also 16108 line
36606	AADAC	NM_001086.1	492	ttgatgtgtgtgtgtatcaaac	204363	-	see also 16108 line
36607	ABHD1	NM_032604.2	1006	tacatccggcagtttgatgagc	204401	-	see also 16109 line
36608	ABHD1	NM_032604.2	710	gtcgtgaaccacataaagcatcg	204395	-	see also 16109 line
36609	ABHD4	NM_022060.1	661	tcctaggacgttccatccattg	204412	-	see also 16110 line

図46 (続き)

1008

36610	ABHD4	NM_022060.1	875	ccctatgctggagagaattoact	204414	-	see also 16110 line
36611	ACATE2	NM_012332.1	156	ggcaccctcgctggagataagt	204423	-	see also 16111 line
36612	ACATE2	NM_012332.1	777	cagctccactgctgtaactgaaa	204442	-	see also 16111 line
36613	ADPHL1	NM_138430.3	627	gtgttgcgcacacaaagaaagc	204469	-	see also 16112 line
36614	ADPHL1	NM_138430.3	445	cacacacgctcaatgaaaagg	204468	-	see also 16112 line
36615	ADPHL2	NM_017825.1	407	ccccaatgtcgcgagtctttg	204475	-	see also 16113 line
36616	ADPHL2	NM_017825.1	408	cccaaatgtcgcgagtctttga	204476	-	see also 16113 line
36617	ASAH	NM_014435.1	607	ggccacacagtttacagtttc	204493	-	see also 16114 line
36618	ASAH	NM_014435.1	608	ggccacacaaagttaacagtttc	204492	-	see also 16114 line
36619	ASAH	NM_014435.1	601	ggccagagccacacaaagtta	204490	-	see also 16114 line
36620	ATP5C1	NM_005174.1	179	atggtagcggcagcaaatatgc	204494	-	see also 16115 line
36621	ATP5C1	NM_005174.1	661	aagtctgaacagcatgatatct	204503	-	see also 16115 line
36622	ATP5D	NM_001687.3	455	ggcgtgacgctggacatgttg	204518	-	see also 16116 line
36623	ATP5D	NM_001687.3	232	ctccacgcgaggtgtttcaac	204515	-	see also 16116 line
36624	ATP5D	NM_001687.3	230	ctctccacgcgaggtgtttca	204514	-	see also 16116 line
36625	ATP5O	NM_001697.1	656	ggcgtatgcggagagattgtctaa	204536	-	see also 16117 line
36626	ATP5O	NM_001697.1	593	ttgtgcattggcgcagaaatat	204530	-	see also 16117 line
36627	ATP6A2	NM_005765.2	562	ctccgtaatcgcctgtttcaaga	204551	-	see also 4025 line
36628	ATP6A2	NM_005765.2	145	ttggggaacgcgagtttagtatatt	204539	-	see also 4025 line
36629	ATP6V0B	NM_004047.2	296	cagcctggcgcacatatattacc	204576	-	see also 16119 line
36630	ATP6V0B	NM_004047.2	669	tgagggtatcgtgcattcttc	204577	-	see also 16119 line
36631	ATP6V0D1	NM_004691.3	1084	atcgttggtatcgtcgaatgtat	204584	-	see also 16120 line
36632	ATP6V0D1	NM_004691.3	102	gtgttctccggagctttact	204579	-	see also 16120 line
36633	ATP6V1D	NM_015994.2	760	agcgaagaaggtcttatagttta	204601	-	see also 16121 line
36634	ATP6V1D	NM_015994.2	708	ccccgattgaacgtactcttgc	204597	-	see also 16121 line
36635	ATP6V1G1	NM_004888.2	406	gacattcggccagaaatccatga	204608	-	see also 16122 line
36636	ATP6V1G1	NM_004888.2	410	ttcggccagaataccatgaaac	204609	-	see also 16122 line
36637	ATP6V1G1	NM_004888.2	411	tggccagaataccatgaaact	204610	-	see also 16122 line
36638	ATP6V1G2	NM_130463.2	622	cacccaacttaccgagtttgc	204614	-	see also 16123 line
36639	ATP6V1G3	NM_133262.2	365	cactacaataagtatatggaag	204624	-	see also 16124 line
36640	ATP6V1G3	NM_133262.2	344	aagatacagaacattatggaca	204620	-	see also 16124 line
36641	BPHL	NM_004332.1	910	ttcatgccgacttcatcataag	204640	-	see also 16125 line
36642	BPHL	NM_004332.1	302	tggctttagctgcattaccagc	204626	-	see also 16125 line
36643	C11orf8	NM_001584.1	895	atcatgacgcaggttacacac	204661	-	see also 16126 line
36644	C11orf8	NM_001584.1	906	cggttacacacgctacataatg	204663	-	see also 16126 line
36645	C20orf147	NM_152667.1	404	tccgctaacttctattaacgaat	204680	-	see also 16127 line
36646	C20orf147	NM_152667.1	333	atctacacgtttacacacatga	204676	-	see also 16127 line
36647	C22orf1	NM_001585.2	993	gtcgtatgcactgtgaactacc	204696	-	see also 16128 line
36648	C22orf1	NM_001585.2	968	atggagacacacattatggaat	204694	-	see also 16128 line
36649	CH13L1	NM_001276.1	464	cccagagctgcgcggactttcatc	204699	-	see also 16129 line
36650	CH13L1	NM_001276.1	470	gtgcgcgactttcatcaagta	204701	-	see also 16129 line
36651	CH13L2	NM_004000.1	371	ttctacacacgcttggaattca	204718	-	see also 16130 line
36652	CH13L2	NM_004000.1	203	ttctatcgcgcgactggaataa	204716	-	see also 16130 line
36653	DBR1	NM_016216.1	138	cggcagagctgataagatctatg	204734	-	see also 16131 line

図46 (続き)

1009

36654	DBR1	NM_016216.1	1180	cagctgattcataggatcaatcc	204766	-	see also 16131 line
36655	DIO3	NM_001362.1	908	gcctacttgagcgctctatgt	204780	-	see also 16132 line
36656	DIO3	NM_001362.1	769	cacggactctccctacatcatcc	204779	-	see also 16132 line
36657	DKFZP564 D1378	NM_032124.3	541	tggagcacctctgatagcaatcc	204782	-	see also 16133 line
36658	DKFZP564 D1378	NM_032124.3	603	tggggcctggaccatttgact	204784	-	see also 16133 line
36659	DKFZP564 O243	NM_015407.3	295	ctggcaactcgcccatottttac	204791	-	see also 16134 line
36660	O243	NM_015407.3	296	tggcaactcgcccatottttacc	204792	-	see also 16134 line
36661	DPYSL4	NM_006426.1	1289	gtcgggtgaccagtagtaaatgc	204797	-	see also 4499 line
36662	DPYSL4	NM_006426.1	184	cacgagtgaccgctcttgatca	204794	-	see also 4499 line
36663	DPYSL5	NM_020134.2	990	cacgctgacaggttacactact	204819	-	see also 16136 line
36664	DPYSL5	NM_020134.2	485	ccctgtggagcgttatgagaag	204813	-	see also 16136 line
36665	DPYSL5	NM_020134.2	483	ctccctgtggagcgttatgaga	204812	-	see also 16136 line
36666	ENPP4	NM_014936.1	1000	gocgatgaaggctggacaattgt	204852	-	see also 6119 line
36667	ENPP4	NM_014936.1	111	ctctagttggccactaagttaac	204826	-	see also 6119 line
36668	ENPP5	NM_021572.4	1217	ggcaaccacaggttacgataatgc	204905	-	see also 16138 line
36669	ENPP5	NM_021572.4	422	acctaccctaaccattacttt	204874	-	see also 16138 line
36670	ENPP6	NM_153343.2	738	gacccctgaacgtcattattt	204942	-	see also 16139 line
36671	ENPP6	NM_153343.2	251	tagtctctgtatcccaattatt	204928	-	see also 16139 line
36672	EYA1	NM_000503.3	809	gcgcgaggtgtttaaacaattt	204962	-	see also 390 line
36673	EYA1	NM_000503.3	1664	gggtctactacgccacagatagtg	204985	-	see also 390 line
36674	EYA2	NM_005244.3	871	agctccgagccggctctaaagg	205009	-	see also 16141 line
36675	EYA2	NM_005244.3	978	tccttaactacaggagacatttgc	205011	-	see also 16141 line
36676	EYA3	NM_001990.2	489	ccctcaggcaaccccaacgtatg	205034	-	see also 1273 line
36677	EYA3	NM_001990.2	347	ctcgtctatccaatgattatacc	205031	-	see also 1273 line
36678	EYA4	NM_004100.2	1301	atcaacgtatggagcgatatga	205076	-	see also 2769 line
36679	EYA4	NM_004100.2	1313	agcgtatatgacatcgaataaca	205078	-	see also 2769 line
36680	FAM16AX	NM_012080.1	341	gtccgctggttgatgatgaaga	205121	-	see also 16144 line
36681	FAM16AX	NM_012080.1	338	gggtccgcgctcgttcgataga	205120	-	see also 16144 line
36682	FLJ11151	NM_018340.1	941	gtcacccgcccagagaaattgtcoa	205129	-	see also 16145 line
36683	FLJ11151	NM_018340.1	962	caccgatactacagctagatga	205131	-	see also 16145 line
36684	FLJ11151	NM_018340.1	943	caccgcccagagaaattgtcacc	205130	-	see also 16145 line
36685	FLJ11342	NM_018394.1	291	tggcgattgaggagtttgcaca	205148	-	see also 16146 line
36686	FLJ11342	NM_018394.1	909	agctcaactatagtaactag	205171	-	see also 16146 line
36687	FLJ21736	NM_024922.3	1241	accgtcatagataaccctagg	205183	-	see also 16147 line
36688	FLJ21736	NM_024922.3	1310	atgggtgacgtattatcaaatgt	205185	-	see also 16147 line
36689	FLJ31547	NM_145024.1	1484	tgcctgaaccgggaatcctaag	205210	-	see also 16148 line
36690	FLJ31547	NM_145024.1	1483	tgtctgaaccgggaatcctaag	205209	-	see also 16148 line
36691	GNPDA1	NM_005471.2	782	tgcaggtggatagagctatttg	205224	-	see also 16149 line
36692	GNPDA1	NM_005471.2	1198	tggaccctctgtacagtatcaaa	205227	-	see also 16149 line
36693	KIAA1363	NM_020792.1	871	tgcagggaatgatcgttaacaa	205252	-	see also 7970 line

図46 (続き)

1010

36694	LHPP	NM_022126.2	332	cggagtcctcgcagaatttgatc	205267	-	see also 16151 line
36695	LHPP	NM_022126.2	330	gacggagtcgcgcagaattiga	205266	-	see also 16151 line
36696	LOC13414	NM_138809.2	789	ttccactcaagagcgtatcttgg	205286	-	see also 16152 line
36697	LOC13414	NM_138809.2	413	cccaataccagatataatagctga	205279	-	see also 16152 line
36698	LOC33922	NM_178543.2	262	ccctggctaccggcaaatatctc	205291	-	see also 16153 line
36699	LOC33922	NM_178543.2	260	caacctggctaccggcaaatata	205290	-	see also 16153 line
36700	MASA	NM_021204.1	251	caaccgtgactcgttgatgatcg	205301	-	see also 16154 line
36701	MASA	NM_021204.1	653	ggccggaaatgaagggtacatct	205308	-	see also 16154 line
36702	MGC12904	NM_031219.2	1069	cccatcgcgtgaacagctttata	205317	-	see also 16155 line
36703	MGC12904	NM_031219.2	1345	agccatgttggggataattacc	205322	-	see also 16155 line
36704	MGC3234	NM_023947.2	954	aagtccaagtggcgaagcgaat	205332	-	see also 16156 line
36705	MGC3234	NM_023947.2	982	tggggctcaacttctatgtatg	205334	-	see also 16156 line
36706	MPPE1	NM_023075.2	1964	tgtctgggaagcgttaagacaaga	205356	-	see also 16157 line
36707	MPPE1	NM_023075.2	1199	atgatgtggagcggcttccagaaa	205337	-	see also 16157 line
36708	OVGP1	NM_002557.2	628	atgtccaacatcctatgatgt	205371	-	see also 16158 line
36709	OVGP1	NM_002557.2	1172	tcacctgtctacgtattgaat	205379	-	see also 16158 line
36710	OVGP1	NM_002557.2	1205	tgcggctgagttcagttcaact	205384	-	see also 16158 line
36711	PHCA	NM_018367.3	531	tacattagttactcgtatctatt	205419	-	see also 7420 line
36712	PHCA	NM_018367.3	344	atgaactcccaatgatatacagc	205410	-	see also 7420 line
36713	PIGO	NM_032634.2	862	caagccatagtgggaagacaatct	205433	-	see also 9265 line
36714	PLP	NM_020315.3	739	cccccagcagcagcttatgtgg	205467	-	see also 16160 line
36715	PLP	NM_020315.3	200	ggcggcaagcggcctctgttgt	205465	-	see also 16160 line
36716	SGPP2	NM_152386.2	745	ttcccggtgtatcatagtgt	205484	-	see also 16161 line
36717	SGPP2	NM_152386.2	742	cttcccggtgtgtcatagt	205483	-	see also 16161 line
36718	THEM2	NM_018473.2	454	accggagtcagttcgtataga	205505	-	see also 16162 line
36719	THEM2	NM_018473.2	392	ttgaacagccagcttagtagataa	205499	-	see also 16162 line
36720	VPS29	NM_016226.2	240	aggagacttcgtatgagaatctga	205514	-	see also 16163 line
36721	VPS29	NM_016226.2	544	acctatgtatcagcgaattgg	205524	-	see also 16163 line
36722	COL4A3B	NM_005713.1	1911	ttctcagcgagacgtattatc	205563	-	see also 3962 line
36723	COL4A3B	NM_005713.1	2034	cagatgttcggtgccaaataa	205565	-	see also 3962 line
36724	CSNK2B	NM_001320.5	382	tgggctcgtggcaatgaattct	205577	-	see also 872 line
36725	CSNK2B	NM_001320.5	560	caggcagccgagatcgtttatgg	205583	-	see also 872 line
36726	PRKDC	NM_006904.6	11939	ttcggctaactccagtttato	205898	-	see also 4842 line
36727	PRKDC	NM_006904.6	3144	tgtctgggtgtattcaggaattcc	205671	-	see also 4842 line
36728	PRKAG1	NM_002733.1	689	ggcaactatgccaatattgctat	205924	-	see also 1772 line
36729	PRKAG1	NM_002733.1	691	caactatgccaatattgctatgg	205925	-	see also 1772 line
36730	CKS2	NM_001827.1	147	gagtagccgcagttgtgttacc	205935	-	see also 16168 line
36731	CKS2	NM_001827.1	302	tagaacacctctccaaagatc	205940	-	see also 16168 line
36732	PRKAG3	NM_017431.1	1209	ttcccgcttggtgtgtatcacc	205956	-	see also 16169 line
36733	PRKAG3	NM_017431.1	1201	ggcctctattcccgctttgtatg	205955	-	see also 16169 line
36734	GTF2H1	NM_005316.2	1341	atgaacaagtcaagacattatt	205961	-	see also 16170 line
36735	GTF2H1	NM_005316.2	1785	ggcgtctgtatgagaacgtga	205967	-	see also 16170 line
36736	BCR	NM_004327.2	3001	ggcgaacggcagaggttacacg	205972	-	see also 16171 line
36737	BCR	NM_004327.2	640	aggagcgttcgcgaatgatctac	205968	-	see also 16171 line

図46 (続き)

1011

36738	BRD2	NM_005104.2	3931	agggagacagctcaattactaa	206011	-	see also 16172 line
36739	BRD2	NM_005104.2	2025	gggtctaccgattatcacaaa	205979	-	see also 16172 line
36740	FASTK	NM_006712.3	1276	accgtgcccgtgcaagtacagt	206020	-	see also 16173 line
36741	FASTK	NM_006712.3	944	gocctttggcgaggaactacc	206015	-	see also 16173 line
36742	H11	NM_014365.2	918	gtggcattgtttctaagaacttc	206023	-	see also 16174 line
36743	H11	NM_014365.2	1034	gtccctctactacaacttgg	206027	-	see also 16174 line
36744	EFNA3	NM_004952.3	415	cccgacacagcccacataaagtct	206028	-	receptor activity - transmembrane- ephrin receptor
36745	EFNA3	NM_004952.3	644	atcaacgctctgggaagacttga	206029	-	see also 36744 line
36746	EFNA4	NM_005227.2	294	cccgagagactgttctttgtaca	206033	-	see also 3664 line
36747	EFNB3	NM_001406.3	783	tcgctcgacacacgattactac	206047	-	see also 16176 line
36748	EFNB3	NM_001406.3	791	caccacgattactacatcattgc	206049	-	see also 16176 line
36749	NRP2	NM_003872.1	78	accgtcgaggagtcgttgaatt	206055	-	see also 2633 line
36750	NRP2	NM_003872.1	464	gcccacacgagggaccatcgaatc	206065	-	see also 2633 line
36751	FGFRL1	NM_021923.2	1011	aggacgatcgaggcatgtacatc	206107	-	see also 16178 line
36752	FGFRL1	NM_021923.2	1413	cagttgctggcccttaagtgtac	206109	-	see also 16178 line
36753	PDGFRL	NM_006207.1	712	agccaatggaaaggacattgttt	206123	-	see also 16179 line
36754	PDGFRL	NM_006207.1	331	aactgtagagctcgatgtaaag	206116	-	see also 16179 line
36755	PDGFRL	NM_006207.1	243	caccaagacgagtcgtatcatg	206114	-	see also 16179 line
36756	IGF2R	NM_000876.1	6205	aaggagctctgactatataaa	206284	-	see also 572 line
36757	IGF2R	NM_000876.1	1185	gagcagaggttcactctattt	206151	-	see also 572 line
36758	CRKL	NM_005207.2	1366	tcaccttaagcagcgtcaaaatc	206328	-	see also 16181 line
36759	CRKL	NM_005207.2	596	ggggcagcgccacggatgttcc	206307	-	see also 16181 line
36760	WIF1	NM_007191.2	1190	cagcacacacccctcaactaaaa	206355	-	see also 4987 line
36761	WIF1	NM_007191.2	757	ttgtaccccagatgtatgaatg	206346	-	see also 4987 line
36762	C9orf39	NM_017738.1	371	ctccggcaaaagtgtactaatc	206362	-	see also 16183 line
36763	C9orf39	NM_017738.1	535	aagcttagaaccgttaatgggtt	206367	-	see also 16183 line
36764	KCNH2	NM_000238.2	1953	ttgctccctcatgtatgtagc	206437	-	see also 174 line
36765	KCNH2	NM_000238.2	1949	ctcattggctccctcatgtatgc	206436	-	see also 174 line
36766	KCNH3	NM_012284.1	817	agggcaagacacagctcaataag	206444	-	see also 16185 line
36767	KCNH3	NM_012284.1	1889	ggccacactggcggtgaacaatg	206449	-	see also 16185 line
36768	KCNH4	NM_012285.1	1194	gtcccaagtcggccaggttaatc	206461	-	see also 16186 line
36769	KCNH4	NM_012285.1	2031	ggccctatcgtgcaacatcaaga	206469	-	see also 16186 line
36770	KCNH8	NM_144633.2	1440	gtcgtatccgaagtgccctattg	206515	-	see also 16187 line
36771	KCNH8	NM_144633.2	1637	ccctctatcacactagaactaag	206519	-	see also 16187 line
36772	ATR	NM_001184.2	1943	ttgccgtatctcttaacatta	206613	-	see also 16188 line
36773	ATR	NM_001184.2	6097	atccatgtcgagctatgtact	206747	-	see also 16188 line
36774	CDK5R1	NM_003885.2	455	cagccacctcaaatgagaacc	206827	-	see also 16189 line
36775	CDK5R1	NM_003885.2	838	tgcctctcagggatgttatctcc	206828	-	see also 16189 line
36776	CDKN1A	NM_000389.2	526	gaccagcatgacagatttctacc	206830	-	see also 16190 line
36777	PIK3C2A	NM_002645.1	3069	tagtacccgatacagaacatgttt	206922	-	see also 1719 line
36778	PIK3C2A	NM_002645.1	3072	taccgatagcaacatgttttgg	206923	-	see also 1719 line
36779	PIK3C2B	NM_002646.2	4563	aagagctctggcgaatcagtga	207035	-	see also 16192 line
36780	PIK3C2B	NM_002646.2	2776	cccgtaggagtgacacatttcc	207011	-	see also 16192 line

図46 (続き)

1012

36781	PIK3C2G	NM_004570.2	4271	atgtacggagcccccacttacaatg	207165	-	see also 3107 line
36782	PIK3C2G	NM_004570.2	3243	aagtgggcccacatgttttcatt	207134	-	see also 3107 line
36783	PIK3C3	NM_002647.2	1737	aacgcgaagtggaatcgtgaag	207236	-	see also 1728 line
36784	PIK3C3	NM_002647.2	1707	atcggttggtcatctaatgaag	207234	-	see also 1728 line
36785	PIK3CA	NM_006218.1	118	tgcctcgtgaggctacattagt	207266	-	see also 4306 line
36786	PIK3CA	NM_006218.1	806	atcctctgagtcagtgataagt	207275	-	see also 4306 line
36787	PIK3CB	NM_006219.1	1514	acctccttcagataaagattatt	207392	-	see also 4313 line
36788	PIK3CB	NM_006219.1	1181	taccagaatggctcgattagt	207377	-	see also 4313 line
36789	PIK3CD	NM_005026.2	759	ggccctcttgctcaacgttaagt	207455	-	see also 3512 line
36790	PIK3CD	NM_005026.2	605	acgacttcggccgaagatgtgc	207451	-	see also 3512 line
36791	PIK3CG	NM_002649.2	1154	gtgggcgaacgcccatcaaaa	207472	-	see also 1729 line
36792	PIK3CG	NM_002649.2	1155	tgggcgaacgcccatcaaaaac	207473	-	see also 1729 line
36793	PIK3R2	NM_005027.1	745	agccctggctcagcgcatgaaga	207530	-	see also 16197 line
36794	PIK3R2	NM_005027.1	1612	cgcgagatgaccagctttatg	207535	-	see also 16197 line
36795	MGC26597	NM_152700.2	1436	gtcaatgcacactcaagacteg	207547	-	see also 16198 line
36796	MGC26597	NM_152700.2	1370	ctggctgctcaatcacatatag	207544	-	see also 16198 line
36797	MGC46424	NM_173492.1	243	ctccgagaggtatgacatcaaa	207548	-	see also 16199 line
36798	MGC46424	NM_173492.1	244	tccgagaggtatgacatcaaaag	207549	-	see also 16199 line
36799	PIP5K1A	NM_003557.1	425	tcgtcttggtgggttttcac	207551	-	see also 16200 line
36800	PIP5K1A	NM_003557.1	1332	ggccttgatgtaatccataat	207554	-	see also 16200 line
36801	PIP5K1B	NM_003558.1	1116	gacatgcacgaagggtgtttt	207572	-	see also 2365 line
36802	PIP5K1B	NM_003558.1	1893	caagcaagcctcacactcttc	207592	-	see also 2365 line
36803	PIP5K1C	NM_012398.1	755	tccgctgtgtgcatgaacaac	207605	-	see also 16202 line
36804	PIP5K1C	NM_012398.1	1350	tgcgagcgcttttcaagtcca	207607	-	see also 16202 line
36805	PIP5K2A	NM_005028.3	1232	aacatcgacgtctatagaattaa	207636	-	see also 16203 line
36806	PIP5K2A	NM_005028.3	767	ggcatgtaccggcttaatttga	207625	-	see also 16203 line
36807	PIP5K2B	NM_003559.3	1106	ctcactgtgcatcgcaagtatgacc	207650	-	see also 2366 line
36808	PIP5K2B	NM_003559.3	1108	cactgtgcatcgcaagtatgacc	207651	-	see also 2366 line
36809	PIP5K2B	NM_003559.3	744	acctgccacgcgcttaagt	207645	-	see also 2366 line
36810	PIP5K2C	NM_024779.3	176	ggcgtagcgcacactcgatcaatga	207660	-	see also 8742 line
36811	PIP5K2C	NM_024779.3	1224	tccatccggagcagtgatgctaag	207676	-	see also 8742 line
36812	IHPK1	NM_153273.1	275	ccgggaacacgcgttttacgagt	207681	-	see also 16205 line
36813	IHPK1	NM_153273.1	338	aggcgtggtatctgtctgtttg	207683	-	see also 16205 line
36814	IHPK2	NM_016291.1	736	atcgaaacagtagcaaaattatc	207708	-	see also 16206 line
36815	IHPK2	NM_016291.1	351	gtggtatctgtcgcttgaaga	207696	-	see also 16206 line
36816	IHPK3	NM_054111.1	1079	tgcggcatcgacggtttatcaac	207714	-	see also 16207 line
36817	IHPK3	NM_054111.1	1409	aaggttagcatcgcatgattga	207721	-	see also 16207 line
36818	IPMK	NM_152230.1	953	atgcgcgtcacaggaaatata	207755	-	see also 16208 line
36819	IPMK	NM_152230.1	954	tgcgcgtcacaggaaatata	207756	-	see also 16208 line
36820	PIK4CB	NM_002651.1	1377	gagtagaggtccgtagaaact	207793	-	see also 1733 line
36821	PIK4CB	NM_002651.1	214	gtcggggaactatcagtgattga	207770	-	see also 1733 line
36822	PIK4CB	NM_002651.1	2486	atggcagtatcggtctatcacc	207809	-	see also 1733 line
36823	FRAP1	NM_004958.2	3677	gtgcacacacgaatcaatca	207869	-	see also 3446 line
36824	FRAP1	NM_004958.2	1887	ttgcacactgtgcggatctt	207832	-	see also 3446 line

1014

圖46 (續前)

[illegible]

1015

図 46 (続き)

36908	GMPPA	NM_013335.2	170	ccctaatacaaacaccatattg	209192	-	see also 5403 line
36909	GMPPA	NM_013335.2	761	aggcgaggccagatatactg	209203	-	see also 5403 line
36910	GMPPB	NM_013334.2	1282	ctgggtgaggacgtcatagtaa	209210	-	see also 5402 line
36911	GMPPB	NM_013334.2	1284	gggtgaggacgtcatagtaa	209212	-	see also 5402 line
36912	NMNAT3	NM_178177.2	788	taggtcaacgacccaaagggtac	209219	-	see also 16246 line
36913	NMNAT3	NM_178177.2	789	aggtcaacgacccaaagggtaca	209220	-	see also 16246 line
36914	NMNAT3	NM_178177.2	433	aacgacacccatagggaagaaga	209218	-	see also 16246 line
36915	DLG2	NM_001364.1	1791	cgctgattgagcccaaatoc	209253	-	see also 925 line
36916	DLG2	NM_001364.1	818	tgcgtagaagcagccattttg	209232	-	see also 925 line
36917	DLG2	NM_001364.1	2338	cccatgaaggatcggtatcaatga	209265	-	see also 925 line
36918	DLG3	NM_021120.1	1982	gacggggatgattgagtcaaca	209294	-	see also 8095 line
36919	MAGI-3	NM_020965.2	1714	tgcacacggcgatgttttag	209341	-	see also 8053 line
36920	MPP1	NM_002436.2	311	gtcggaaggtgcgactacata	209378	-	see also 1588 line
36921	MPP1	NM_002436.2	217	ggctgtatcgatccactgaata	209374	-	see also 1588 line
36922	MPP3	NM_001932.2	1665	ggcgacttacatcacacaagt	209424	-	see also 16251 line
36923	MPP3	NM_001932.2	957	ggagtcctacacccctaaatca	209420	-	see also 16251 line
36924	PMVK	NM_006556.2	754	gacgatgctgagtcagaatgg	209431	-	see also 16252 line
36925	CKB	NM_001823.3	875	gtctaaggactatgattcatgt	209434	-	see also 1178 line
36926	CKM	NM_001824.2	1058	tgcctgggctcgtatgtttgacg	209439	-	see also 1179 line
36927	GKM	NM_001824.2	134	ccccacctcagcaaacataaca	209435	-	see also 1179 line
36928	CKM	NM_001824.2	834	tgcgtaggctgtcaggaagatga	209438	-	see also 1179 line
36929	CKMT1	NM_020990.2	406	caactgttgacgtcgtatcatgt	209440	-	see also 8062 line
36930	CKMT1	NM_020990.2	765	actggctggacgttactatagg	209444	-	see also 8062 line
36931	CKMT2	NM_001825.1	1116	gtggaatgagcgcctcagatata	209464	-	see also 1180 line
36932	CKMT2	NM_001825.1	1121	atgagcgcctcagatatactttg	209465	-	see also 1180 line
36933	CEPT	NM_006090.2	707	ggcactggcaaacgtatgttc	209490	-	see also 4228 line
36934	CEPT	NM_006090.2	710	caactggcaaacgtatgtttctgg	209492	-	see also 4228 line
36935	PIGF	NM_002643.2	275	ctgtcaactagtagtataatta	209519	-	see also 1718 line
36936	PIGF	NM_002643.2	420	tggagcacccactgtagagttgg	209522	-	see also 1718 line
36937	CHPT1	NM_020244.1	617	tgcctcctcgttaggaacttacc	209528	-	see also 7818 line
36938	CHPT1	NM_020244.1	618	ggcgtcgttaggaacttacc	209529	-	see also 7818 line
36939	DPAGT1	NM_001382.1	1188	ctcgttcgactcttctatgattg	209579	-	see also 950 line
36940	DPAGT1	NM_001382.1	892	accgcatccccagactcaatacc	209573	-	see also 950 line
36941	PRPSAP1	NM_002766.1	875	ggcgctataagatctatgtat	209598	-	see also 16259 line
36942	PRPSAP1	NM_002766.1	413	ctggcgaaagcaggtttaaactca	209586	-	see also 16259 line
36943	PRPSAP2	NM_002767.2	528	gggtgataccctacttcttctacc	209609	-	see also 16260 line
36944	PRPSAP2	NM_002767.2	1098	tggcaactcaggtctgtgtgt	209620	-	see also 16260 line
36945	TPK1	NM_022445.2	233	gtgcaaacgccttatatgatacc	209628	-	see also 16261 line
36946	TPK1	NM_022445.2	234	tggcaaacgccttatatgatata	209629	-	see also 16261 line
36947	PGK1	NM_000291.2	231	agccaagctcgttagtctttaga	209649	-	see also 16262 line
36948	PGK1	NM_000291.2	1053	caactgggctaagcagatgtgt	209658	-	see also 16262 line
36949	PGK2	NM_138733.2	613	ctggcacccgcgcctcactagttcc	209667	-	see also 16263 line
36950	PGK2	NM_138733.2	1122	ggcgcttaggaggtattgaatg	209681	-	see also 16263 line
36951	PYCS	NM_002880.2	1428	caccggaatcgccaaaaacttgg	209711	-	see also 1903 line

1016

図46 (続き)

36952	PYCS	NM_002860.2	1425	ccgcaocccgaatgccaaaaact	209710	-	see also 1903 line
36953	PYCS	NM_002860.2	1692	ttgcgcctgacaaaaatgatag	209719	-	see also 1903 line
36954	MGC11134	NM_031472.2	531	atcggtgccatgtgaatagc	209747	-	see also 16285 line
36955	MGC11134	NM_031472.2	434	ctggcaatccatctactcaaaag	209742	-	see also 16285 line
36956	B3GALT1	NM_020981.2	1233	gtgtaggatcgccggatttca	209780	-	see also 16286 line
36957	B3GALT1	NM_020981.2	788	ttgactctaccataacccctaac	209769	-	see also 16286 line
36958	B3GALT2	NM_003783.2	1536	taccataatggagatatgcacc	209808	-	see also 2587 line
36959	B3GALT2	NM_003783.2	1942	atcgcaacccgttaaacatcattag	209830	-	see also 2587 line
36960	B3GALT4	NM_003782.2	770	gacggcggatgatgtgtatgta	209832	-	see also 16288 line
36961	B3GALT4	NM_003782.2	1350	atcctgcgtgtctggcaatagc	209836	-	see also 16288 line
36962	B3GALT5	NM_006057.1	503	agcatgtacagctctaaatccttt	209839	-	see also 16289 line
36963	B3GALT5	NM_006057.1	1133	aagagcgtcccatatacattaaact	209856	-	see also 16289 line
36964	B3GNT1	NM_006577.3	542	gtcgggtgttacgggttttaaca	209871	-	see also 4609 line
36965	B3GNT1	NM_006577.3	1069	ctggacctctcgggataagaag	209885	-	see also 4609 line
36966	B4GALT1	NM_001497.2	715	aaccaggcggagagacattatft	209910	-	see also 16271 line
36967	B4GALT1	NM_001497.2	716	accagcgggagacacattatft	209911	-	see also 16271 line
36968	B4GALT2	NM_003780.2	986	gaccggcgaagaacataacgaacc	209939	-	see also 2585 line
36969	B4GALT2	NM_003780.2	981	agcacagccgcgaacagcataac	209938	-	see also 2585 line
36970	B4GALT3	NM_003779.2	412	ccctgtgtgtctacagttaacc	209944	-	see also 2584 line
36971	B4GALT3	NM_003779.2	406	ttctaacctcgtgtgtgtctaca	209943	-	see also 2584 line
36972	B4GALT4	NM_003778.2	973	cactgggtacaggtacgtttaca	209979	-	see also 16274 line
36973	B4GALT4	NM_003778.2	897	acctgtgtacccagagatgaactt	209973	-	see also 16274 line
36974	ABO	NM_020469.1	16	cggacgctggccggaaaaacccaaa	209988	-	see also 16275 line
36975	ABO	NM_020469.1	339	caccacattgggttaactgtgt	209994	-	see also 16275 line
36976	ABO	NM_020469.1	47	caottcgacctatgaccttttc	209990	-	see also 16275 line
36977	B4GALT7	NM_007255.1	845	aagcgcatcgacgctcaaaaaca	210000	-	see also 16276 line
36978	B4GALT7	NM_007255.1	497	agcaacagcacgagactacattgc	209997	-	see also 16276 line
36979	C1GALT1	NM_020156.1	397	ccagcggtgttaacaaaagtgttg	210013	-	see also 16277 line
36980	C1GALT1	NM_020156.1	1074	accttacctgaactatactaaa	210027	-	see also 16277 line
36981	A4GALT	NM_017436.3	1252	gacgcacggagccatgaaatgt	210039	-	see also 16278 line
36982	A4GALT	NM_017436.3	1161	tccacgtgtggaacaaagaagagc	210037	-	see also 16278 line
36983	B3GALT6	NM_080605.2	389	gcgagacgctacgaaaacccca	210042	-	see also 9515 line
36984	B3GALT6	NM_080605.2	385	cgtcgtcgagcgcctcagaaaac	210041	-	see also 9515 line
36985	B3GNT3	NM_014256.2	345	gcccgaacagcttcagaaactcc	210044	-	see also 16279 line
36986	B3GNT3	NM_014256.2	1144	gtgcaccgttctcactcattga	210051	-	see also 16279 line
36987	B3GNT4	NM_030765.1	128	ggcgtgtgagatggccttttacc	210055	-	see also 16280 line
36988	B3GNT4	NM_030765.1	847	caggaaacactaaggtcaaatact	210060	-	see also 16280 line
36989	B3GNT5	NM_032047.2	672	ctcgtaccaatacttgattaac	210079	-	see also 16281 line
36990	B3GNT5	NM_032047.2	669	ggcctcgtccaatacttgatt	210077	-	see also 16281 line
36991	B3GNT7	NM_145236.1	1244	accgcaaacgcccgaagaacaaag	210117	-	see also 16282 line
36992	B3GNT7	NM_145236.1	919	ccacaaacactcctagaatttct	210115	-	see also 16282 line
36993	B4GALT5	NM_004776.2	1207	cacatcacgacgcttctgataaaa	210143	-	see also 16283 line
36994	B4GALT5	NM_004776.2	270	tccgggacaacgctggaacaatc	210120	-	see also 16283 line
36995	B4GALT5	NM_004776.2	1205	atcacatcacgacgcttctgataa	210142	-	see also 16283 line

図46 (続き)

1017

36996	MG339558	NM_152490.1	1205	gtcgacacttatcgtaattgccc	210170	-	see also 16285 line
36997	MG339558	NM_152490.1	678	gagttctatcccatcgattatt	210157	-	see also 16285 line
36998	MG339558	NM_152490.1	896	ggcttcgacgacacatttttta	210190	-	see also 16286 line
36999	MG339558	NM_152490.1	897	ggcttcgacgacacatttttta	210191	-	see also 16286 line
37000	DSCR5	NM_016430.2	354	ctogtggggcctttattcttga	210199	-	see also 6856 line
37001	DSCR5	NM_016430.2	387	aactcttttagtttaacctattg	210201	-	see also 6856 line
37002	DSCR5	NM_016430.2	508	ctcaactgacctccatccatata	210203	-	see also 6856 line
37003	PIGA	NM_002641.1	1464	cagggagctcctggactaataac	210250	-	see also 1714 line
37004	PIGA	NM_002641.1	803	atcgatttgcttagtggtataat	210240	-	see also 1714 line
37005	PIGC	NM_153747.1	833	cagcaactatcttggaacattgg	210268	-	see also 16289 line
37006	PIGC	NM_153747.1	676	gtgccctagcttcattacttcc	210265	-	see also 16289 line
37007	PIGC	NM_004204.2	869	acctcagcttaactcttaagata	210281	-	see also 2813 line
37008	PIGC	NM_004204.2	1257	gtccctctctcgacattatcg	210282	-	see also 2813 line
37009	C2GNT3	NM_016591.1	1075	aactgttcgggtatctatgaaca	210293	-	see also 16291 line
37010	C2GNT3	NM_016591.1	1950	gagtaagactcgccttgtaagt	210318	-	see also 16291 line
37011	GCNT2	NM_001491.2	1744	atctatgaaacggagacttaaa	210353	-	see also 16292 line
37012	GCNT2	NM_001491.2	1759	gacttaagtggtggttaattc	210354	-	see also 16292 line
37013	GCNT3	NM_004751.1	1139	aaccctgtggaaatatacatttg	210411	-	see also 16293 line
37014	GCNT3	NM_004751.1	1470	atcgataagggtgctcttatgc	210422	-	see also 7128 line
37015	FLJ20277	NM_017739.1	1861	acctagctggcctttctgagat	210443	-	see also 7128 line
37016	FLJ20277	NM_017739.1	1648	atcgtcgccctcaacatgaatgg	210440	-	see also 16295 line
37017	MGAT1	NM_002406.2	1735	agctggctaccggaggtatgtoa	210448	-	see also 16295 line
37018	MGAT1	NM_002406.2	1799	cgacgtggaggggctatgctacc	210450	-	see also 5202 line
37019	MGAT4A	NM_012214.1	1401	accgtagctggagactacatct	210482	-	see also 5576 line
37020	MGAT4B	NM_014275.2	1108	aacctggagctcgcttcaaac	210494	-	see also 1561 line
37021	MGAT3	NM_002409.3	1206	ggccctgtgacggcgtcttttcc	210504	-	see also 1561 line
37022	MGAT3	NM_002409.3	1666	ggcccgagcgagacatgtatgc	210508	-	see also 16298 line
37023	GCNT1	NM_001490.3	955	tccgaggattctctattagctgc	210538	-	see also 16298 line
37024	GCNT1	NM_001490.3	747	gacacctgacgactatataaaca	210522	-	see also 16299 line
37025	B3GNT6	NM_006876.1	1262	atcttatatcgacgttcaaac	210570	-	see also 16299 line
37026	B3GNT6	NM_006876.1	1250	cagcaacaataagatctctatcg	210569	-	see also 16299 line
37027	MGAT2	NM_002408.2	1135	ccgactctctcgccattatag	210584	-	see also 1557 line
37028	MGAT5	NM_002410.2	1136	ccgactctctcgccattataga	210585	-	see also 16301 line
37029	MGAT5	NM_002410.2	4376	tggagctctatcgcaaatggatgt	210650	-	see also 16301 line
37030	MGAT5	NM_002410.2	4490	agcatcttaccgtgaagtcttc	210682	-	see also 16302 line
37031	alpha4GnT	NM_016161.1	1134	gacttacaggagacctgaataag	210677	-	see also 16302 line
37032	alpha4GnT	NM_016161.1	874	ttagggatgtgtgtaacttga	210672	-	see also 16303 line
37033	XYLT1	NM_022166.1	1402	ctccgataccgagatataat	210682	-	see also 16303 line
37034	XYLT1	NM_022166.1	1403	tccegataccgagatataat	210683	-	see also 8320 line
37035	XYLT2	NM_022167.1	2410	ggcccccacacggagatctgg	210712	-	see also 8320 line
37036	XYLT2	NM_022167.1	949	ggcccgagctatgataacgtgc	210702	-	see also 16305 line
37037	FUT1	NM_000148.1	963	aggcttaacacctggaagacttt	210722	-	see also 16305 line
37038	FUT1	NM_000148.1	964	ggctacacctggaagactttg	210723	-	see also 16305 line
37039	FUT2	NM_000511.1	626	tccatgtcatgccaaaagtgtgg	210728	-	see also 16306 line

図46 (続き)

1018

37040	FUT2	NM_000511.1	750	ctggtgctgggagaaacattgaca	210730	-	see also 16306 line
37041	FUT8	NM_004480.3	1700	agctggactgcacaatcgataca	210763	-	see also 3030 line
37042	FUT8	NM_004480.3	2034	ttgggaaggagcggccctatatcc	210772	-	see also 3030 line
37043	FUT10	NM_032664.3	520	cactacgcatcttaattcattt	210790	-	see also 16308 line
37044	FUT10	NM_032664.3	930	ctgaagtcaactcgcatacctagt	210800	-	see also 16308 line
37045	FUT11	NM_173540.1	1468	gacgaattttggagttacactac	210836	-	see also 16309 line
37046	FUT11	NM_173540.1	1114	gggcataccacaacaaattcttc	210832	-	see also 16309 line
37047	FUT4	NM_002033.1	1042	agcgcctgggttgatgaacttc	210840	-	see also 16310 line
37048	FUT4	NM_002033.1	1418	ctcgacacactggatataca	210842	-	see also 16310 line
37049	FUT7	NM_004479.1	1052	cacgactgcggggaactttct	210848	-	see also 16311 line
37050	FUT7	NM_004479.1	999	agcggataccaaacgcttttgc	210847	-	see also 16311 line
37051	FUT9	NM_006581.2	785	gaattaccgcggtgattcagata	210863	-	see also 4610 line
37052	FUT9	NM_006581.2	599	aacggaccgttcaactgtacaaca	210855	-	see also 4610 line
37053	UGT1A10	NM_019075.1	1095	tgcgaacaacacagatacttgta	329678	-	see also 16313 line
37054	UGT1A10	NM_019075.1	1117	aagtgactaccaccaaaacgatct	329680	-	see also 16313 line
37055	UGT2A1	NM_006798.1	527	gtggcgatatagtagctttaaata	210904	-	see also 16314 line
37056	UGT2A1	NM_006798.1	659	aactcaaccacaaatgtcttctc	210909	-	see also 16314 line
37057	UGT2B10	NM_001075.2	25	gactacagttctgtgatacaac	210930	-	see also 16315 line
37058	UGT2B10	NM_001075.2	28	tacagttctgtgatacaactoa	210931	-	see also 16315 line
37059	UGT2B15	NM_001076.1	1203	tccctgttgggatacaactg	210944	-	see also 16317 line
37060	UGT2B15	NM_001076.1	206	ctctgtcaatgccagtaataca	210937	-	see also 16317 line
37061	UGT2B17	NM_001077.1	236	tcttgtcaatgccagtaataca	210937	-	see also 16318 line
37062	UGT2B4	NM_021139.1	512	ctgctggcggagttacttaaat	210955	-	see also 16320 line
37063	UGT2B4	NM_021139.1	566	ggctacgaattgaaagacatag	210959	-	see also 16320 line
37064	UGT2B7	NM_001074.1	221	atcgctcttaaatgaaattt	210960	-	see also 16321 line
37065	UGT2B7	NM_001074.1	349	tacaggaataatgcaaatatt	210963	-	see also 16321 line
37066	GALNT2	NM_004481.2	1359	aactaactgcctgcacactttgg	210985	-	see also 3033 line
37067	GALNT2	NM_004481.2	1502	accggcacccgggctctcttata	210987	-	see also 3033 line
37068	GALNT3	NM_004482.2	897	ggctgtcgaagtcagatattg	211029	-	see also 3035 line
37069	GALNT3	NM_004482.2	587	aagcgtgtcaccgttgccttaga	211019	-	see also 3035 line
37070	GALNT5	NM_014568.1	2557	atcgaccagggcctagatgtgg	211114	-	see also 5755 line
37071	GALNT5	NM_014568.1	2407	tgtcccgagtgaggccatattt	211109	-	see also 5755 line
37072	GALNT6	NM_007210.2	1102	cacatcgttacctatgataatca	211142	-	see also 5014 line
37073	GALNT6	NM_007210.2	897	caccatcgaccttaacttttg	211136	-	see also 5014 line
37074	GALNT6	NM_007210.2	898	accatcgaccttaacttttga	211137	-	see also 5014 line
37075	GALNT7	NM_017423.1	651	ctcactcggcgttgctcattgt	211165	-	see also 6998 line
37076	GALNT7	NM_017423.1	523	aagcaattcaagccagcattaaa	211162	-	see also 6998 line
37077	GALNT8	NM_017417.1	685	aacgggcatcacccagtatcatc	211221	-	see also 16326 line
37078	GALNT8	NM_017417.1	583	ccgacacggagactacacagatg	211217	-	see also 16326 line
37079	GALNT9	NM_021808.2	536	cccgagatggagggtctacaaca	211245	-	see also 8175 line
37080	GALNT9	NM_021808.2	326	ggcctacaacacacgattgact	211244	-	see also 8175 line
37081	GALGT	NM_001478.2	1726	cacgacggcgtgttaactct	211261	-	see also 16328 line
37082	GALGT	NM_001478.2	1399	cccctacgtggaacactatcta	211257	-	see also 16328 line
37083	DDOST	NM_005216.3	1123	tccgattgatcttttggagg	211280	-	see also 16329 line

図46 (続き)

1019

37084	DDOST	NM 005216.3	603	accatggttggaatacatctct	211276	-	see also 16329 line
37085	RPN2	NM 002951.2	2040	tgtatgtcgtggactcatgatg	211321	-	see also 1993 line
37086	RPN2	NM 002951.2	505	acctacatcagatctaaccctga	211288	-	see also 1993 line
37087	ALG5	NM 013338.3	89	gcgcagccctcgtactgatttc	211323	-	see also 5404 line
37088	ALG5	NM 013338.3	88	ggcgcagccctcgtactgatttt	211322	-	see also 5404 line
37089	ALG6	NM 013339.2	352	tgcctgtaaacccgctactgtttg	211351	-	see also 16332 line
37090	ALG6	NM 013339.2	361	accgcctatgttgggtgatg	211352	-	see also 16332 line
37091	ALG6	NM 013339.2	1143	tgcacagtcacatccaattaata	211387	-	see also 16332 line
37092	ITM1	NM 152713.2	1243	atcccgagattttatcatcatg	211434	-	see also 9930 line
37093	ITM1	NM 152713.2	576	gtggctggtctctatgataaga	211416	-	see also 9930 line
37094	SIMP	NM 178862.1	308	accggtggtttaactatagaa	211465	-	see also 16334 line
37095	SIMP	NM 178862.1	304	ttcgaccctggttttaactatag	211462	-	see also 16334 line
37096	PYGB	NM 002862.3	1988	atcgccgagcgtgccaatcatga	211567	-	see also 16335 line
37097	PYGB	NM 002862.3	1497	tctgtgaacagtcggtttttaag	211563	-	see also 16335 line
37098	PYGL	NM 002863.1	1806	cacgatgtacaaccgattaaga	211599	-	see also 1905 line
37099	PYGL	NM 002863.1	523	tacggcattcgtatgaattgg	211578	-	see also 1905 line
37100	PYGL	NM 002863.1	2073	ctcgggacaggaacaatagaagt	211611	-	see also 1905 line
37101	PYGM	NM 005609.1	1510	gcctgctatcgcaacaatttg	211640	-	see also 3897 line
37102	PYGM	NM 005609.1	1513	tgcctatcgcaacaatttgtoa	211641	-	see also 3897 line
37103	MTAP	NM 002451.2	143	accgcgtgaagattggaataat	211660	-	see also 16338 line
37104	MTAP	NM 002451.2	764	atcgccatggcgacagattaga	211678	-	see also 16338 line
37105	MTAP	NM 002451.2	636	tcgaggacactcgttttagctcc	211676	-	see also 16338 line
37106	NP	NM 000270.1	176	cacgcacctcaagtgcataat	211687	-	see also 16339 line
37107	NP	NM 000270.1	177	accgaactcaagtgcataatc	211688	-	see also 16339 line
37108	GYG	NM 004130.2	452	ttcggagctctggtttatcagg	211704	-	see also 2787 line
37109	GYG	NM 004130.2	643	acctccggcatttaagttgtt	211712	-	see also 2787 line
37110	GYG	NM 004130.2	321	tgttgcttacacagttattcaaa	211700	-	see also 2787 line
37111	GYG2	NM 003918.1	757	cccgagatggcggatgcttca	211731	-	see also 16341 line
37112	GYG2	NM 003918.1	1002	gtgcaaaagtgctccacttttg	211738	-	see also 16341 line
37113	UGCGL1	NM 020120.1	307	atcatgaagggtaccgattatcc	211764	-	see also 16342 line
37114	UGCGL1	NM 020120.1	2357	tggacggcagttactgtatgatg	211840	-	see also 16342 line
37115	YS1	NM 002103.3	1561	cgccgaatggcctcttcaatag	211913	-	see also 16343 line
37116	YS1	NM 002103.3	1283	tgcagcggcggacccaacttcc	211902	-	see also 16343 line
37117	UGCG	NM 003358.1	1354	tcgcggaatccatgacaataac	211955	-	see also 2263 line
37118	UGCG	NM 003358.1	1353	atccggaatccatgacaataata	211954	-	see also 2263 line
37119	POMT2	NM 013382.3	1608	gtcgattcgtctcatcatttg	211979	-	see also 5415 line
37120	POMT2	NM 013382.3	1511	accgctatggcataaaggaaac	211971	-	see also 5415 line
37121	SDF2	NM 006923.2	347	tcctatgtcaccaacttcaactta	211993	-	see also 16346 line
37122	DPM1	NM 003859.1	666	tactattggcgggttccaatat	212012	-	see also 2623 line
37123	DPM1	NM 003859.1	57	gcgcagtcacgacagaacaaat	211994	-	see also 2623 line
37124	AD-017	NM 018446.1	386	aacactcgtccaatgtgatttt	212022	-	see also 7481 line
37125	AD-017	NM 018446.1	1190	ttcaacctatccgaagataac	212060	-	see also 7481 line
37126	FLJ21934	NM 024743.1	1124	gtcattaccgattctcttataa	212077	-	see also 16349 line
37127	FLJ21934	NM 024743.1	257	accaactacgatgaatgcttat	212069	-	see also 16349 line

図46 (続き)

1020

37128	FLJ21934	NM_024743.1	260	aactacgatgaatgcttataga	212070	-	see also 16349 line
37129	FLJ34658	NM_152404.2	1406	gcgcacacacgcacactacaat	212089	-	see also 16350 line
37130	FLJ34658	NM_152404.2	297	aagagcatggttaataatgtgact	212078	-	see also 16350 line
37131	FLJ35155	NM_152531.3	486	ggcgacagaggtgcttaaccttc	212091	-	see also 16351 line
37132	FLJ35155	NM_152531.3	711	ctggctgcacatgcacagatca	212094	-	see also 16351 line
37133	GYLTL1B	NM_152312.2	638	ccggcctctatggcctaataaag	212104	-	see also 9839 line
37134	GYLTL1B	NM_152312.2	568	gtccgtgcagcttttatcagc	212103	-	see also 9839 line
37135	H	NM_013244.2	876	aagcggatattacaattggaot	212115	-	see also 5360 line
37136	H	NM_013244.2	1830	aacgttatgcctagcaacaaag	212148	-	see also 5360 line
37137	LARGE	NM_004737.2	2534	ggcgatttgagcgtatgtgt	212171	-	see also 3263 line
37138	LARGE	NM_004737.2	979	gaacatccacgtgtctatgtgt	212158	-	see also 3263 line
37139	LOC16712	NM_174914.2	1062	accaccaagggtgatatagaagt	212183	-	see also 16354 line
37140	LOC16712	NM_174914.2	253	accatgcttaaccacaagaagg	212176	-	see also 16354 line
37141	LOC83468	NM_031302.2	676	ctctgactcgaatacgaagaatgg	212195	-	see also 16355 line
37142	LOC83468	NM_031302.2	850	aacacgagaaagtcactatttg	212201	-	see also 16355 line
37143	UGCGL2	NM_020121.2	1193	agcgatgctcgtctattataa	212248	-	see also 16356 line
37144	UGCGL2	NM_020121.2	1192	caggcagtgctcgtctattata	212247	-	see also 16356 line
37145	ADPRTL1	NM_006437.2	3258	ggcaactctcctcgtcgaatgg	212447	-	see also 16357 line
37146	ADPRTL1	NM_006437.2	1542	gtattcgtcagtcacaagtgc	212387	-	see also 16357 line
37147	ADPRTL3	NM_005485.2	558	ggagagaggtcggccagtcacaaga	212477	-	see also 16358 line
37148	ADPRTL3	NM_005485.2	363	accgcagagaagcgcgaataatcc	212475	-	see also 16358 line
37149	ART1	NM_004314.1	963	ggccctgcccctggtgataatc	212494	-	see also 16359 line
37150	ART3	NM_001179.2	631	tacatttggagggtcgaacacaag	212509	-	see also 16360 line
37151	ART3	NM_001179.2	832	ggctggcaataacattatctctc	212514	-	see also 16360 line
37152	ART3	NM_001179.2	1196	cgatttggagatgctcatcatttt	212516	-	see also 16361 line
37153	TNKS2	NM_025235.2	583	tggcgagaaagacgtagtgaat	212519	-	see also 16361 line
37154	TNKS2	NM_025235.2	3448	tggcaatgaacgaatgctatttc	212605	-	see also 16361 line
37155	TNKS2	NM_025235.2	3447	atgccaatgaacgaatgctatttt	212604	-	see also 16361 line
37156	ART5	NM_053017.2	342	tggcgctggcggtttgtagatc	212615	-	see also 16362 line
37157	ART5	NM_053017.2	902	aaggcagtgggccacagatttgg	212618	-	see also 16362 line
37158	DO	NM_021071.1	690	caacggggccacaaattcgatttg	212648	-	see also 16363 line
37159	DO	NM_021071.1	970	atccctgactcctagctattgc	212656	-	see also 16363 line
37160	DO	NM_021071.1	303	cgttagcaaacaggttatggaga	212632	-	see also 16363 line
37161	PRIFDC1	NM_020200.5	564	ggcggtttagaactgactatgc	212683	-	see also 16364 line
37162	PRIFDC1	NM_020200.5	61	acggcgagagcgtcgtgattatg	212657	-	see also 16364 line
37163	QTRT1	NM_031209.1	392	ccccctacgacggcgaatgagacc	212694	-	see also 8990 line
37164	QTRT1	NM_031209.1	275	acggctccacaggtcctaagaat	212691	-	see also 8990 line
37165	QTRT1	NM_024638.2	1351	tggcgaggtcgtcgttatgatg	212720	-	see also 16366 line
37166	QTRT1	NM_024638.2	1006	aggtgctcgtcgttatgaaaga	212712	-	see also 16366 line
37167	UPP1	NM_003364.2	998	tcgggaaacaggaacttaacaag	212739	-	see also 16367 line
37168	UPP1	NM_003364.2	512	atgattgccccgcagactttta	212726	-	see also 16367 line
37169	UPP1	NM_003364.2	913	ccggcactgtgtcacaacaga	212737	-	see also 16367 line

1021

図46 (続き)

37170	UMPS	NM_000373.1	723	gtggcagcgaataataatggttc	212753	-	see also 299 line
37171	UMPS	NM_000373.1	1427	acggaggttcgatacatcatcg	212771	-	see also 299 line
37172	QPRT	NM_014298.2	227	tgccatatttaccacaactcaact	212775	-	-
37173	SIAT4A	NM_003033.2	1989	cacottggcctccatcaataaaa	212778	-	see also 16369 line
37174	SIAT4A	NM_003033.2	1326	gcggagaaagaagcccaataact	212778	-	see also 16369 line
37175	SIAT4B	NM_006927.2	1382	gtgctccgactgggttgacagc	212779	-	see also 16370 line
37176	SIAT4B	NM_006927.2	1402	agccactttgacggtaacatttc	212781	-	see also 16370 line
37177	SIAT4C	NM_006278.1	355	ttcctcgcttggtgggtatttt	212787	-	see also 4368 line
37178	SIAT7C	NM_152996.1	688	tcggaatgcccaataatacgtga	212822	-	see also 9971 line
37179	SIAT7D	NM_014403.3	663	ctgctgtcgcaactattcaaca	212837	-	see also 16373 line
37180	SIAT7D	NM_014403.3	698	ggcccgagacacgctctacatgg	212839	-	see also 16373 line
37181	SIAT1	NM_003032.2	1118	taccagaatccggattataatt	212863	-	see also 16374 line
37182	SIAT1	NM_003032.2	1357	gactgacgtgtctactactacc	212869	-	see also 16374 line
37183	SIAT8A	NM_003034.2	798	tggtatgacggggagttttata	212878	-	see also 16375 line
37184	SIAT8A	NM_003034.2	933	ggctgtggcgtgcataatagatga	212884	-	see also 16375 line
37185	SIAT9	NM_003896.2	750	accagttcgatgtgtgataagg	212908	-	see also 2653 line
37186	SIAT9	NM_003896.2	682	ctgctggcgtgtgtgtgtattg	212904	-	see also 2653 line
37187	SIAT7A	NM_018414.2	1693	ggccatgagcgtttctgtatca	212940	-	see also 16377 line
37188	SIAT7A	NM_018414.2	1590	tggtgccactggagagataacc	212937	-	see also 16377 line
37189	SIAT6	NM_006279.2	1271	ctcgcgtcatcactgctatgaac	212958	-	see also 4370 line
37190	SIAT6	NM_006279.2	1225	cacaatccagcagagagaaaga	212957	-	see also 4370 line
37191	SIAT6	NM_006279.2	227	ttctgactgggtttttgtat	212944	-	see also 4370 line
37192	SIAT10	NM_006100.2	873	atcgactctatgatgtataaat	212980	-	see also 16378 line
37193	SIAT10	NM_006100.2	528	tgcattattgggaacgaatgt	212965	-	see also 16378 line
37194	SIAT7E	NM_030965.1	1048	ggcgagtcataccocgctttatca	213001	-	see also 16379 line
37195	SIAT7E	NM_030965.1	1091	aactggcgcagggcaattcaatat	213002	-	see also 16379 line
37196	SIAT8B	NM_006011.2	998	accagtcgaagtaccactattat	213019	-	see also 4187 line
37197	SIAT8B	NM_006011.2	972	ggccttcgcctggatcagaacc	213018	-	see also 4187 line
37198	SIAT8C	NM_015879.1	2237	ttcgtccattagaattctct	213029	-	see also 6552 line
37199	SIAT8C	NM_015879.1	2191	cgcgggattccggtcacaaattg	213025	-	see also 6552 line
37200	SIAT8C	NM_015879.1	2233	gtcattcgtgccattacgaatt	213028	-	see also 6552 line
37201	SIAT8D	NM_005668.3	445	gtcgtcaactgtcaatagctct	213068	-	see also 3938 line
37202	SIAT8D	NM_005668.3	441	ttgagtcggtcactgtcactag	213067	-	see also 3938 line
37203	SIAT8E	NM_013305.2	1327	atcgccgaagctgtctactact	213111	-	see also 16383 line
37204	SIAT8E	NM_013305.2	538	ctcgcccaaccgggattttgttg	213094	-	see also 16383 line
37205	SIAT8E	NM_013305.2	990	accggtccagtttaagaaggtgt	213108	-	see also 16383 line
37206	ST6GalII	NM_032528.1	204	aacgaatgcttttgggaatttc	213116	-	see also 16384 line
37207	ST6GalII	NM_032528.1	1150	tgctctacacgtgtgtatgaga	213131	-	see also 16384 line
37208	AC6	NM_013443.3	208	gacgcggagagaaatgagtagc	213143	-	see also 16385 line
37209	AC6	NM_013443.3	308	tgccaatgaggtcttccattacg	213145	-	see also 16385 line

図46 (続き)

1022

37210	STHM	NM_006456.1	811	aggcgcacgcctattttgacc	213167	-	see also 16386 line
37211	STHM	NM_006456.1	808	gacaggccgcacgcctattttgg	213166	-	see also 16386 line
37212	STHM	NM_006456.1	732	ctcagacatccgcgactatgtga	213162	-	see also 16386 line
37213	ALG12	NM_024105.2	473	tacgtgttcctgcgttagaagt	213173	-	see also 16387 line
37214	ALG12	NM_024105.2	895	gacgggttctgtgagactcttatt	213181	-	see also 16387 line
37215	ALG12	NM_024105.2	552	ttggactctggacgttacaagaag	213177	-	see also 16387 line
37216	ALG3	NM_005787.3	325	atcttatgggtgtgtactatgc	213192	-	see also 4045 line
37217	ALG3	NM_005787.3	239	tagaaggcgtcaataggttaac	213187	-	see also 4045 line
37218	ALG8	NM_024079.2	716	aaccagatgggtctctatcgatgg	213222	-	see also 8582 line
37219	ALG8	NM_024079.2	1250	ggagactctcgtattttctgatt	213237	-	see also 8582 line
37220	ALG8	NM_024079.2	69	caaggactggcgaattggtttt	213197	-	see also 8582 line
37221	C1GALT2	NM_152692.2	445	cagtaaggagctttcgagataact	213255	-	see also 16390 line
37222	C1GALT2	NM_152692.2	638	tacgctttgataagtatagaga	213261	-	see also 16390 line
37223	DPM3	NM_018973.3	339	ggctatcgtggccacttttca	213284	-	-
37224	DPM3	NM_018973.3	344	tcgtgtggccacttttcaact	213285	-	see also 37223 line
37225	EXT1	NM_000127.1	1615	tgcccttatcaogtocaataacg	213304	-	see also 100 line
37226	EXT1	NM_000127.1	2580	aggagcgggtgggatacacatca	213340	-	see also 100 line
37227	EXT2	NM_000401.1	490	gtgtgcgtcgtcaagtaata	213347	-	see also 321 line
37228	EXT2	NM_000401.1	1677	aagcgaactccagtaacaataa	213383	-	see also 321 line
37229	EXTL1	NM_004455.1	1142	ggcgcgatggccttaaggtatcg	213409	-	see also 16394 line
37230	EXTL1	NM_004455.1	2302	gtgatcctctaccatataagc	213417	-	see also 16394 line
37231	EXTL2	NM_001439.1	1152	caagctctgcagagatctatttg	213456	-	see also 16395 line
37232	EXTL2	NM_001439.1	432	ctcatgttgctgtaggaataaa	213438	-	see also 16395 line
37233	EXTL3	NM_001440.1	744	ccgcctcatgccactattacc	213482	-	see also 1009 line
37234	EXTL3	NM_001440.1	743	tcocgctcatgccactattac	213461	-	see also 1009 line
37235	HAS1	NM_001523.1	951	agcggctcctcgtgccttatag	213500	-	see also 16397 line
37236	HAS1	NM_001523.1	827	tgggaactgcggatccttaacc	213499	-	see also 16397 line
37237	HAS2	NM_005328.1	1664	acctacgaagcgtattcaactgg	213544	-	see also 3713 line
37238	HAS2	NM_005328.1	1779	tagtaggtctcaataaaatcactc	213551	-	see also 3713 line
37239	MFNG	NM_002405.2	869	caccatggctatactattagat	213590	-	see also 16399 line
37240	MFNG	NM_002405.2	1009	aggggaactcaacgtatttaag	213591	-	see also 16399 line
37241	SMP3	NM_025163.2	1337	tcocctgtctcgtcttttagt	213596	-	see also 16400 line
37242	SMP3	NM_025163.2	882	agccaacaacctgtttgaagt	213594	-	see also 16400 line
37243	BAT8	NM_006709.2	2598	accatgaactgcgtctgttttc	213615	-	see also 16401 line
37244	BAT8	NM_006709.2	2597	atgcgcgaagtctcttgaatgc	213614	-	see also 16401 line
37245	SET7	NM_030648.1	1198	cccgctttgggcccacaaatg	213649	-	see also 8921 line
37246	SET7	NM_030648.1	971	ctgtgggacataactgttatg	213642	-	see also 8921 line
37247	C20orf36	NM_018257.1	233	atcgatgagcagactattatct	213653	-	see also 16403 line
37248	C20orf36	NM_018257.1	600	ctcagatgatgtgtatctgt	213666	-	see also 16403 line
37249	C20orf36	NM_018257.1	981	gtcgaatgggaacgattgtctt	213674	-	see also 16403 line
37250	LOC11529	NM_052937.1	663	tgccatatagatcagttaaca	213696	-	see also 9460 line
37251	LOC11529	NM_052937.1	845	tacattcgacgcacactagaaa	213704	-	see also 9460 line
37252	PCMT1	NM_005389.1	180	accgctccactatgcaaatgt	213716	-	see also 16405 line
37253	PCMT1	NM_005389.1	573	aggcgtcaatagatcagttaaag	213728	-	see also 16405 line

1023

図46 (続き)

37254	BHMT	NM_001713.1	58	aggcctactagaaagctttaaat	213739	-	see also 16406 line
37255	BHMT	NM_001713.1	57	aaggcctactagaaagctttaaa	213738	-	see also 16406 line
37256	BHMT2	NM_017614.3	185	cgagcttctgaactcaaatg	213769	-	see also 16407 line
37257	BHMT2	NM_017614.3	215	gagagcagatgaatgcatgc	213762	-	see also 16407 line
37258	MTR	NM_000254.1	720	ctctgggtccgactaataagaca	213781	-	see also 16408 line
37259	MTR	NM_000254.1	960	caaggacagctgttgataaagt	213790	-	see also 16408 line
37260	MTR	NM_000254.1	2297	gtcgaagaacgcttgatgac	213817	-	see also 16408 line
37261	HSA9761	NM_014473.1	499	ctgttgctactgactcttttt	213868	-	see also 5699 line
37262	HSA9761	NM_014473.1	556	gcctcgcactgttgcaaaacc	213872	-	see also 5699 line
37263	TFB1M	NM_016020.1	120	caagattcggaaatcattaatg	213894	-	see also 6621 line
37264	TFB1M	NM_016020.1	647	agcgtagctgcctctctgttatg	213915	-	see also 6621 line
37265	FLJ10140	NM_018006.2	765	gcctcgcactgtgcaactttatt	213948	-	see also 16412 line
37266	FLJ10140	NM_018006.2	626	tgggggactaaacgaagagttt	213940	-	see also 16412 line
37267	ICMT	NM_012405.2	788	ttcttcgcgctgatacagaaga	213968	-	see also 16413 line
37268	ICMT	NM_012405.2	694	ttcttcgcgctgatacagaaga	213967	-	see also 16413 line
37269	ICMT	NM_012405.2	295	ctgcggcagcgtgctaaagttta	213955	-	see also 16413 line
37270	PEMT	NM_007169.2	682	ctgttggccctcaactacatagt	213974	-	see also 16414 line
37271	PEMT	NM_007169.2	525	aacttctcgtggtgattactcg	213973	-	see also 16414 line
37272	PNMT	NM_002686.2	972	cggggacactccgcaactatca	213985	-	see also 16415 line
37273	PNMT	NM_002686.2	971	tcgggacactccgcaactatca	213984	-	see also 16415 line
37274	COQ3	NM_017421.2	519	ggcggcttggggctcagttatt	214006	-	see also 6997 line
37275	COQ3	NM_017421.2	299	gtcgacagcgggtgaggtaaaac	213998	-	see also 6997 line
37276	COQ3	NM_017421.2	121	ttctcggcgttattgtgaaga	213990	-	see also 6997 line
37277	CGI-30	NM_015958.1	831	ggcgaagcagcaaaatggcagc	214049	-	see also 16417 line
37278	CGI-30	NM_015958.1	704	tcacaggtatatgagtgtaaacc	214041	-	see also 16417 line
37279	CGI-30	NM_015958.1	216	taacactaagctcctaactgtagg	214024	-	see also 16417 line
37280	INMT	NM_008774.3	182	ggggacacacgctgattgacattgg	214055	-	see also 16418 line
37281	INMT	NM_006774.3	633	tggggaaacgtgaaatttctctgc	214056	-	see also 16418 line
37282	GAMT	NM_000156.4	206	ggcgttgggagaccctcctatgc	214057	-	see also 132 line
37283	GAMT	NM_000156.4	444	accctgcctgcgctgactttga	214059	-	see also 132 line
37284	TPMT	NM_000367.1	753	tgggaattgactgtctttttga	214066	-	see also 16419 line
37285	NNMT	NM_006169.1	826	gtgatctcgcaaaagtattcttc	214079	-	see also 16420 line
37286	NNMT	NM_006169.1	797	aggtctggctacaacatagaatgg	214074	-	see also 16420 line
37287	AD-003	NM_014064.1	775	atgagatctaccatgctctatagc	214084	-	see also 16421 line
37288	AD-003	NM_014064.1	703	acgtgttccgagagatcactgc	214083	-	see also 16421 line
37289	C2orf8	NM_025264.2	1198	tggggaaacacattgatttttgc	214116	-	see also 16422 line
37290	C2orf8	NM_025264.2	113	ggggccacacgaggttgatgat	214086	-	see also 16422 line
37291	CGI-01	NM_015935.2	1501	ggccttctacagatgctcaaatg	214143	-	see also 16423 line
37292	CGI-01	NM_015935.2	478	tgggtatcgggatatagtgaac	214127	-	see also 16423 line
37293	CYT19	NM_020682.2	816	atcgtgactgtctgtttgttc	214172	-	see also 16424 line
37294	CYT19	NM_020682.2	694	gtcttgggttggcttttactctgg	214168	-	see also 16424 line
37295	CYT19	NM_020682.2	88	ttcgtgacgctgagatacagaag	214154	-	see also 16424 line
37296	FLJ10640	NM_019023.1	1060	tgcctacagagcgggttgaaac	214190	-	see also 7664 line
37297	FLJ10640	NM_019023.1	973	gtgtacaccagcgcactttacagt	214188	-	see also 7664 line

図46 (続き)

1024

37298	FLJ20628	NM_017910.2	831	cacaagagacgagtcataagtttt	214225	-	see also 16426 line
37299	FLJ20628	NM_017910.2	542	ttgaacaacttcggaacttaaa	214211	-	see also 16426 line
37300	FLJ23841	NM_144589.2	769	gcagagtgctgcgaacacataa	214258	-	see also 16427 line
37301	FLJ23841	NM_144589.2	320	agccgaggggagttctatgatg	214255	-	see also 16427 line
37302	HNMT	NM_006895.1	567	atcgaaactcgagaacgtaaggt	214272	-	see also 4826 line
37303	HNMT	NM_006895.1	881	acctaggggttaagtatgagtg	214278	-	see also 4826 line
37304	HRMT1L1	NM_001535.1	1063	ctctcgaaacgtgcactatatt	214296	-	see also 16429 line
37305	HRMT1L1	NM_001535.1	1102	accgtgcaaatcttgatctaga	214299	-	see also 16429 line
37306	HRMT1L2	NM_001536.2	816	tgcaagtgaagcgaagaaactaac	214309	-	see also 16430 line
37307	HRMT1L2	NM_001536.2	225	acgcgaactccatgtttcctaac	214302	-	see also 16430 line
37308	HRMT1L2	NM_001536.2	805	ccggttcgctgcaagtgagc	214308	-	see also 16430 line
37309	HRMT1L3	NM_019854.2	1132	atgtcgagagacctgattcaca	214326	-	see also 16431 line
37310	HRMT1L3	NM_019854.2	240	gagatgaacctgagagattatta	214311	-	see also 16431 line
37311	LCMT1	NM_016015.2	1090	agcatcgccgtcgacatgatgg	214349	-	see also 16432 line
37312	LCMT1	NM_016015.2	623	gaggttgactttccaatgatgt	214338	-	see also 16432 line
37313	MGO17301	NM_152637.1	353	tgaggaaocggagccaaacttca	214354	-	see also 16433 line
37314	MGC17301	NM_152637.1	612	gaccggagagtgctcttttc	214358	-	see also 16433 line
37315	MGC2408	NM_032331.2	537	gagggcgggttatctcaatgact	214368	-	see also 16434 line
37316	MGC2408	NM_032331.2	534	ctggaggccgggttatctcaatg	214366	-	see also 16434 line
37317	MGC24132	NM_152396.1	792	gactacgagactgtatcatatgc	214392	-	see also 16435 line
37318	MGC24132	NM_152396.1	709	caactgttcactctctgataagtg	214387	-	see also 16435 line
37319	MGC50559	NM_173802.2	837	ttgtttgttggcgatatgttt	214414	-	see also 16436 line
37320	MGC50559	NM_173802.2	558	atcttaactgggcaactctactgg	214401	-	see also 16436 line
37321	NCOA6IP	NM_024831.5	1868	gtcatcgccagctgaagttatta	214463	-	see also 16437 line
37322	NCOA6IP	NM_024831.5	577	gaggatcgaaagtgtacaattt	214427	-	see also 16437 line
37323	NCOA6IP	NM_024831.5	496	agccggctggcggaatgtttot	214421	-	see also 16437 line
37324	SRM	NM_003132.1	361	ccgcgaaagggtgtgcatcatcg	214500	-	see also 16438 line
37325	SRM	NM_003132.1	234	tctctgtcttcgcagtaagacc	214499	-	see also 16438 line
37326	WBSR22	NM_017528.2	118	gacagaagcccggaatacgttc	214507	-	see also 16439 line
37327	WBSR22	NM_017528.2	673	ttctggccttgacactttatcac	214517	-	see also 16439 line
37328	GART	NM_000819.3	1083	caaccgctaactgtgtcatgg	214546	-	see also 16440 line
37329	GART	NM_000819.3	1102	atggcaagtaaggttatctctgg	214548	-	see also 16440 line
37330	MtFMT	NM_139242.2	725	ggcgacttacgccctcaagattt	214620	-	see also 16441 line
37331	MtFMT	NM_139242.2	386	ttcgtttggcgacttttgaatg	214612	-	see also 16441 line
37332	FTHFD	NM_012190.2	339	ggagtggcgttatccaagtactcc	214639	-	see also 16442 line
37333	FTHFD	NM_012190.2	336	atggagtgccgagttattcaagttac	214637	-	see also 16442 line
37334	SHMT1	NM_004169.3	975	ggcgagctggcgatgatctctcac	214683	-	see also 16443 line
37335	SHMT1	NM_004169.3	379	ggccctagggctttgtcttaata	214677	-	see also 16443 line
37336	SHMT1	NM_004169.3	336	agctgattgctcgaggaaatttc	214675	-	see also 16443 line
37337	SHMT2	NM_005412.3	930	ggcggagatgcccttacacattt	214697	-	see also 16444 line
37338	SHMT2	NM_005412.3	665	ttccgggcaacggcctcatcatagc	214694	-	see also 16444 line
37339	SHMT2	NM_005412.3	697	cgcctatgctgcgctcatattgact	214695	-	see also 16444 line
37340	AMT	NM_000481.1	206	gccttgtgtcgtccacttagttg	214707	-	see also 16445 line
37341	AMT	NM_000481.1	247	caggacacccgctctatgacttcc	214708	-	see also 16445 line

図46 (続き)

1025

37342	DMGDH	NM_013391.2	2449	ttcgcataatgtccctgtacaact	214798	-	see also 5421 line	
37343	DMGDH	NM_013391.2	759	ggctcgtgaagtagtgaataatga	214744	-	see also 5421 line	
37344	DMGDH	NM_013391.2	2082	ggcgtgtatgaagctatcatga	214785	-	see also 5421 line	
37345	GC5H	NM_004483.2	326	aagttgggacaaaattgaacaaa	214802	-	-	aminomethyl/transf erase
37346	PDPR	NM_017990.3	3086	ttcgcagctctcgaattgagaag	214808	-	see also 7190 line	
37347	PDPR	NM_017990.3	3268	atctggagacacatgattcaga	214816	-	see also 7190 line	
37348	PDPR	NM_017990.3	3463	aacggagagagatgagattga	214819	-	see also 7190 line	
37349	SARDH	NM_007101.2	2886	ggcgtctcgtggcgtttgtga	214838	-	see also 16448 line	
37350	SARDH	NM_007101.2	1154	agcgcatacaggggattcagaac	214824	-	see also 16448 line	
37351	SARDH	NM_007101.2	1913	ccacacacacacacatcaagaag	214832	-	see also 16448 line	
37352	TYMS	NM_001071.1	1006	tacaattccgcatccaactataa	214857	-	see also 16449 line	
37353	TYMS	NM_001071.1	643	tgcgttggaatccaagagatct	214848	-	see also 16449 line	
37354	TYMS	NM_001071.1	1010	atcgcataccaactataaattg	214858	-	see also 16449 line	
37355	FLJ20257	NM_019606.3	2048	gtcttcgtcacgggttaatttgt	214865	-	see also 16450 line	
37356	FLJ20257	NM_019606.3	1924	agggacacacacacgttcgaaga	214863	-	see also 16450 line	
37357	FTSJ1	NM_012280.2	1001	tgtctccacccgcacatctgtgc	214879	-	see also 16451 line	
37358	FTSJ1	NM_012280.2	389	tgtctgcagcgcttcaactgc	214873	-	see also 16451 line	
37359	FTSJ2	NM_013393.1	625	gtcaaacgcgttggtacagagg	214890	-	see also 16452 line	
37360	FTSJ2	NM_013393.1	425	ccegaagaacctcaacagagatcc	214887	-	see also 16452 line	
37361	LOC57019	NM_020313.1	757	accacgacttatcactcattgc	214901	-	see also 16453 line	
37362	LOC57019	NM_020313.1	555	gacctctcagccacacgatatgg	214893	-	see also 16453 line	
37363	LOC57019	NM_020313.1	598	ttctgtggatgtgttaactca	214895	-	see also 16453 line	
37364	SKB1	NM_006109.2	665	ttcggactttgtgtgactatag	214908	-	see also 4246 line	
37365	SKB1	NM_006109.2	666	tccggactttgtgtgactatag	214909	-	see also 4246 line	
37366	GATM	NM_001482.1	646	taccgagcgtacaggtcaattat	214946	-	see also 1021 line	
37367	GATM	NM_001482.1	647	acagagcgtacaggtcaattatc	214947	-	see also 1021 line	
37368	NAT1	NM_000662.3	594	ttccgtttgacggagagagatgg	214970	-	see also 16455 line	
37369	NAT1	NM_000662.3	722	tactttaagcctcgaacaattg	214975	-	see also 16455 line	
37370	NAT1	NM_000662.3	863	caccatagagagattcaattata	214977	-	see also 16455 line	
37371	NAT2	NM_000015.1	683	tacgcttgaacctcgaacaattg	214985	-	see also 16456 line	
37372	NAT2	NM_000015.1	856	cagatcttggtcgggtttaaaact	214992	-	see also 16456 line	
37373	SAT	NM_002970.1	411	cccggtgattggcaagttattgt	215001	-	see also 16457 line	
37374	SAT	NM_002970.1	445	ttctctgtgtgaggtattatag	215004	-	see also 16457 line	
37375	SAT	NM_002970.1	469	ggctthggcatagagatcagaat	215005	-	see also 16457 line	
37376	AANAT	NM_001088.1	718	gagcgcgtgtgtacaccttctatga	215013	-	-	arylalkylamine N- acetyltransferase
37377	NAGS	NM_153006.1	893	gactcgcgcagcagcagtcataag	215016	-	see also 16458 line	
37378	NAGS	NM_153006.1	1445	atccctgtgattcttaaacacagt	215020	-	see also 16458 line	
37379	ARD1	NM_003491.2	126	tgcgagggccagagacctaataa	215021	-	see also 2356 line	
37380	CML2	NM_016347.1	275	accttggcgcgggtatgtagaca	215028	-	see also 16459 line	
37381	CML2	NM_016347.1	283	cgcggatgtagacatagcattg	215030	-	see also 16459 line	
37382	CSRP2BP	NM_020536.2	2521	ggccgacgcacactctcgattact	215059	-	see also 7892 line	
37383	CSRP2BP	NM_020536.2	2523	ccgacgcacactctcgattactgt	215060	-	see also 7892 line	

1026

図4-6 (続き)

37384	DKFZP564	NM_015654.3	156	taccacagatggatgaatacaga	215075	-	see also 16461 line
37385	DKFZP564	NM_015654.3	562	agtggtctacgagcaggtgtttt	215081	-	see also 16461 line
37386	ELP3	NM_018091.3	1250	tacggccataccaggttgaatg	215117	-	see also 7252 line
37387	ELP3	NM_018091.3	1355	tctacattacgaagtgctca	215124	-	see also 7252 line
37388	ELP3	NM_018091.3	940	ccgatgggtgaaactctcc	215109	-	see also 7252 line
37389	FLJ13848	NM_024771.1	316	ttcgacctgacaaacgaatat	215138	-	see also 16463 line
37390	FLJ13848	NM_024771.1	419	acctaatcgctggaaaacacgc	215140	-	see also 16463 line
37391	FLJ14154	NM_024845.1	388	cacaagctcgctacatctaatg	215149	-	see also 8781 line
37392	FLJ14154	NM_024845.1	784	tggccatgctgggcatctctcc	215155	-	see also 8781 line
37393	FLJ37478	NM_178557.2	159	ggcgacatcgagcagctactaca	215156	-	-
37394	MAK3P	NM_025146.1	543	accttacgaaggctagaatag	215167	-	see also 8871 line
37395	MAK3P	NM_025146.1	547	taccgaaggctaggataggaaac	215168	-	see also 8871 line
37396	NAT5	NM_016100.2	210	ctcgccactggccagagattt	215177	-	see also 6660 line
37397	SAT2	NM_133491.2	276	ggagctagccgaattcgaataa	215198	-	see also 16467 line
37398	SAT2	NM_133491.2	282	tagcgaattcgaataactctcg	215200	-	see also 16467 line
37399	SAT2	NM_133491.2	275	cggagctagccgaattcgaataa	215197	-	see also 16467 line
37400	GTF3C4	NM_012204.1	2379	cgcggactctgtaacttttaa	215243	-	see also 16468 line
37401	GTF3C4	NM_012204.1	762	tccatggttgagagctaatg	215217	-	see also 16468 line
37402	ACAT1	NM_000019.2	707	caggagcttgctgcttaattc	215271	-	see also 16469 line
37403	ACAT1	NM_000019.2	702	atgaacagagcgtcttgctatt	215269	-	see also 16469 line
37404	HADHA	NM_000182.3	80	ctcgctcccgaggttatatg	215294	-	see also 155 line
37405	HADHA	NM_000182.3	1999	agggctcttgctgctgaattc	215340	-	see also 155 line
37406	GCAT	NM_014291.2	998	gacccagaggttcgtagtaaga	215360	-	see also 16471 line
37407	GCAT	NM_014291.2	1000	ccagaggttcgtagtaagatg	215361	-	see also 16471 line
37408	CHAT	NM_020549.2	1498	tgcgaacactcccccattcgatg	215371	-	see also 16472 line
37409	CHAT	NM_020549.2	1210	gcagagcgttgctcctcaattgg	215366	-	see also 16472 line
37410	CRAT	NM_000755.2	2011	cggctacggtgctgctataacc	215390	-	see also 16473 line
37411	CRAT	NM_000755.2	909	tggtaacaactaccagttttt	215385	-	see also 16473 line
37412	GNPAT	NM_014236.1	841	aactatgtacggaatggatg	215416	-	see also 16474 line
37413	GNPAT	NM_014236.1	1698	ttcgcttcctactgattgtttt	215435	-	see also 16474 line
37414	NMT1	NM_021079.3	924	ccacaggaagctgattgaagtga	215451	-	see also 8079 line
37415	NMT1	NM_021079.3	667	gtctcaagtccggaattgttgg	215446	-	see also 8079 line
37416	NMT2	NM_004808.1	486	tacgccaagaacccgtattcttgg	215468	-	see also 3342 line
37417	NMT2	NM_004808.1	823	acgggtgcccgaagtctaatcc	215480	-	see also 3342 line
37418	AGPAT1	NM_006411.2	497	ggcgcaactcgcgagaacatgaag	215506	-	see also 16477 line
37419	AGPAT1	NM_006411.2	985	cgcttcaactcgggacaatgca	215513	-	see also 16477 line
37420	AGPAT4	NM_020133.1	645	gggaactaccccgagaagtatttt	215524	-	see also 16478 line
37421	AGPAT4	NM_020133.1	307	ctgcagaactcctctatgcatct	215518	-	see also 16478 line
37422	LPAAT-e	NM_018361.1	814	tggctgctgaacggttctgaat	215549	-	see also 7414 line
37423	LPAAT-e	NM_018361.1	708	accgaccatgaacgaattctct	215545	-	see also 7414 line
37424	CPT1A	NM_001876.1	1388	agctacgccaactctctactaca	215587	-	see also 16480 line
37425	CPT1A	NM_001876.1	1086	acctcaggagcgcctactcaag	215580	-	see also 16480 line

図46 (続き)

1027

37426	CPT1A	NM_001876.1	707	gtcggctcttgaccacaagattaca	215571	-	see also 16480 line
37427	CPT1B	NM_004377.2	2264	aggcagagaacacagatcttctcc	215626	-	see also 16481 line
37428	CPT1B	NM_004377.2	1703	ggcagagcagcgtggagttgtaact	215620	-	see also 16481 line
37429	CPT2	NM_000098.1	2247	tgcatacggggcagataaacaca	215654	-	see also 16482 line
37430	CPT2	NM_000098.1	1200	accagctcgggagtaactcttca	215638	-	see also 16482 line
37431	CROT	NM_021151.2	449	tgcctatctggatgttcgtatc	215662	-	see also 16483 line
37432	CROT	NM_021151.2	1423	tgttcaaccggatcactttatt	215718	-	see also 16483 line
37433	SOAT1	NM_003101.3	2216	aacgtgcctcgggtactaaattc	215759	-	see also 16484 line
37434	SOAT1	NM_003101.3	1515	gtcgaattgaacataaacagttg	215737	-	see also 16484 line
37435	SOAT1	NM_003101.3	2168	ttcagcagattcgtttgttaatt	215756	-	see also 16484 line
37436	SOAT2	NM_003578.2	250	gcaatcggggaggtctatacaatc	215788	-	see also 16485 line
37437	SOAT2	NM_003578.2	918	ggcctatgtcaggtggaattatg	215791	-	see also 16485 line
37438	SOAT2	NM_003578.2	249	ggcctatgtcggggaggtctatacaat	215787	-	see also 16485 line
37439	LCAT	NM_000229.1	298	tagactgtcgtggatcgatacaacc	215805	-	see also 16486 line
37440	LCAT	NM_000229.1	671	ggcctgggaaggaccgctttatg	215808	-	see also 16486 line
37441	KIAA1560	NM_020918.2	1023	tacgacgaaggctcgtatgaaca	215842	-	see also 8021 line
37442	KIAA1560	NM_020918.2	1840	cactagcaggaacagatgagttt	215873	-	see also 8021 line
37443	KIAA1560	NM_020918.2	1571	tcctctacgaaggaggttgatgc	215867	-	see also 8021 line
37444	ACAA1	NM_001607.2	389	ggcccgaatcgccagttcttga	215893	-	see also 16488 line
37445	ACAA1	NM_001607.2	391	ccggaatcgccagttcttga	215894	-	see also 16488 line
37446	ACAA2	NM_006111.1	102	agcttacggggaggtcttga	215909	-	see also 16489 line
37447	ACAA2	NM_006111.1	195	aacagtgacagtgattatgg	215908	-	see also 16490 line
37448	HADHB	NM_000183.1	178	gagtgtagccaaacccaataaa	215914	-	see also 16490 line
37449	HADHB	NM_000183.1	1101	tacttgaccaacatactgtaact	215936	-	see also 16490 line
37450	HADHB	NM_000183.1	179	acgttagccaacccaataaa	215915	-	see also 16490 line
37451	SPTLC2	NM_004863.2	1845	gagcagacgacgtatgaagaac	216027	-	see also 3378 line
37452	SPTLC2	NM_004863.2	1848	gagcagacgtatgaagaacaga	216028	-	see also 3378 line
37453	DLST	NM_001933.3	770	atgtgcaatctgacaacttta	216030	-	see also 16492 line
37454	ALAS1	NM_000688.4	351	ttcgcgcgtgccattcttacc	216032	-	see also 16493 line
37455	ALAS1	NM_000688.4	975	accacacctatggagttttaaa	216042	-	see also 16493 line
37456	ALAS2	NM_000032.1	917	atccaaggtatccgtaacagtg	216065	-	see also 4 line
37457	ALAS2	NM_000032.1	626	tcgctctgggtgtagtaatgatta	216063	-	see also 4 line
37458	ATE1	NM_007041.1	1195	tacgatcgtattatggtttt	216106	-	see also 4930 line
37459	ATE1	NM_007041.1	1493	accgattgcaggtgtttcaaac	216111	-	see also 4930 line
37460	AUP1	NM_012103.2	306	agcgtccttcgagattcgtagt	216117	-	see also 5132 line
37461	AUP1	NM_012103.2	1491	ggcgcgaagcagcactataga	216134	-	see also 5132 line
37462	BAAT	NM_001701.1	1303	tgcctcaacgaccacacattga	216178	-	see also 16497 line
37463	BAAT	NM_001701.1	1043	accatgcttgagggtactaga	216172	-	see also 16497 line
37464	BAAT	NM_001701.1	585	cactctggtgcacacgaattag	216151	-	see also 16497 line
37465	CPT1C	NM_152359.1	878	tccttggggcgccaattatgt	216186	-	see also 16498 line
37466	CPT1C	NM_152359.1	1966	gtcgcaatgaactcgtatttc	216195	-	see also 16498 line
37467	CPT1C	NM_152359.1	2294	cacaattaccgggactatttcc	216199	-	see also 16498 line
37468	DGAT2	NM_032564.2	914	tgggagtggaatgtctatcaca	216214	-	see also 9248 line
37469	DGAT2	NM_032564.2	880	ggcgggacacacatagactatttg	216213	-	see also 9248 line

図46 (続き)

1028

37470	DGAT2L1	NM_058165.1	494	ctgttttttcgagaatgtgtg	216228	-	see also 16500 line
37471	DGAT2L1	NM_058165.1	166	atgctgcatcacacaactatt	216221	-	see also 16500 line
37472	DKFZp586	NM_178819.2	2034	gacgtacactgctcggaatgatga	216272	-	see also 10210 line
37473	DKFZp586	NM_178819.2	1674	ctcaaccgatgatgtgcatcat	216263	-	see also 10210 line
37474	M1819	NM_178819.2	1676	caccgatcgatgatcatcttg	216264	-	see also 10210 line
37475	FLJ32370	NM_152417.1	740	ggccactgttagctcatctcacc	216286	-	see also 9860 line
37476	FLJ32370	NM_152417.1	481	tgacgctgttgctgctgttg	216279	-	see also 9860 line
37477	FLJ37965	NM_182551.1	926	gtgtgacacgctctaagagaagg	216310	-	see also 16503 line
37478	FLJ37965	NM_182551.1	430	ttgtatcgtcgtggtacacaacc	216299	-	see also 16503 line
37479	GGTLA1	NM_004121.1	1231	acgtgctaagagggttcaacttc	216313	-	see also 16504 line
37480	GGTLA1	NM_004121.1	1208	tgccattctcagctttatctca	216312	-	see also 16504 line
37481	GLYAT	NM_005838.1	468	aacacaacgcatctctatatgg	216330	-	see also 16505 line
37482	GLYAT	NM_005838.1	411	tagcctgaatgaggcttatcaaa	216326	-	see also 16505 line
37483	KIAA0205	NM_014873.1	381	aagcgtgttctggttatatagaagg	216336	-	see also 6069 line
37484	KIAA0205	NM_014873.1	389	ctggtatctcgaaggaatcatgt	216337	-	see also 6069 line
37485	LRAT	NM_004744.1	694	tgggattggcgtctatagtctgt	216372	-	see also 16507 line
37486	LRAT	NM_004744.1	384	atcctggcgcttatgttctaaagt	216388	-	see also 16507 line
37487	MGAT2	NM_025098.2	720	ctcctgggtacggttatctcaga	216388	-	see also 16508 line
37488	MGAT2	NM_025098.2	910	ctgcacacgcttatatacaaga	216391	-	see also 16508 line
37489	MGAT3	NM_178176.2	629	ccggctctatogagactacatca	216402	-	see also 16509 line
37490	MGAT3	NM_178176.2	745	gtgcgcacgagggcctgtattca	216404	-	see also 16509 line
37491	MGC11324	NM_032717.3	565	ggcgtctatgtgcgtctattgtgt	216422	-	see also 16510 line
37492	MGC11324	NM_032717.3	262	gggtgggcccacaatacgaattga	216412	-	see also 16510 line
37493	QPCT	NM_012413.2	521	tgtctgtgcttgagacaagaac	216456	-	see also 16511 line
37494	QPCT	NM_012413.2	648	ctctatgggtctcgtgacacttagc	216459	-	see also 16511 line
37495	TAZ	NM_000116.2	939	gtggcatgtcgggaatgaatgacg	216477	-	see also 16512 line
37496	TAZ	NM_000116.2	989	cccgcttggacacagaaaatcaact	216478	-	see also 16512 line
37497	FLJ90165	NM_153338.1	153	atcagagcgctggttcttaaac	216479	-	-
37498	GGTL3	NM_052830.3	495	gggcatcgagggtgctcagtaaac	216481	-	see also 16513 line
37499	GGTL3	NM_052830.3	600	gggcatggtgctggtacatgaca	216483	-	see also 16513 line
37500	HMGCS1	NM_002130.3	492	gacacaactaatgactgctatgg	216505	-	see also 1367 line
37501	HMGCS1	NM_002130.3	1300	caccgggtctgctcttgataaa	216526	-	see also 1367 line
37502	HMGCS2	NM_005518.1	842	ggcgttggatcgatggttacaca	216560	-	see also 3849 line
37503	HMGCS2	NM_005518.1	1540	gagcagcatgcccaagatgac	216578	-	see also 3849 line
37504	CS	NM_004077.2	914	aacatgttaggctactatgatca	216587	-	see also 16516 line
37505	CS	NM_004077.2	820	ttgtgttcagcaaatgactacc	216583	-	see also 16516 line
37506	CLYBL	NM_138280.2	139	ccccggaggcggtgtttatgt	216595	-	see also 9591 line
37507	CLYBL	NM_138280.2	94	atccccagactggatagtttc	216590	-	see also 9591 line
37508	CLYBL	NM_138280.2	264	agctcagactgagaattgtaaaaa	216597	-	see also 9591 line
37509	GSTA3	NM_000847.3	698	cccgcatgacgcaaaagctttaga	216614	-	glutathione transferase

図 46 (続き)

1029

37510	GSTA3	NM_000847.3	696	ctccgagatgcaaaagcttta	216612	-	see also 37509 line
37511	GSTA3	NM_000847.3	697	tcccgcagatgcaaaagctttag	216613	-	see also 37509 line
37512	GSTA4	NM_001512.2	164	tccgtgagatgggttttagctgc	216616	-	see also 16518 line
37513	GSTA4	NM_001512.2	187	cgccggagtcgagtttgatgaag	216617	-	see also 16518 line
37514	GSTA4	NM_001512.2	188	gcggagtcgagtttgatgaaga	216618	-	see also 16518 line
37515	GSTM1	NM_000561.2	363	gaccatgacacacacatgcagc	216625	-	see also 16519 line
37516	GSTM1	NM_000561.2	669	aagacgtgttctcaaaagatgg	216628	-	see also 16519 line
37517	GSTM2	NM_000848.2	535	tccgtgagagaaacacagatttt	216630	-	see also 16520 line
37518	GSTM3	NM_000849.3	427	ttcagtgagacatcatagagaac	216634	-	see also 16521 line
37519	GSTM3	NM_000849.3	633	ttggatcagacacgcttatattga	216641	-	see also 16521 line
37520	GSTM4	NM_000850.3	692	tggaggaacttctacaatgatg	216642	-	see also 16522 line
							monodehydroascorbate reductase (NADH)
37521	GSTM5	NM_000851.2	681	tccgaggtctttttgttgaaag	216644	-	-
37522	GSTO1	NM_004832.1	323	atgacccctatgagaaagctgc	216649	-	see also 16523 line
37523	GSTO1	NM_004832.1	587	tagaacacactccaaaactgaaa	216655	-	see also 16523 line
37524	GSTO2	NM_183239.1	957	gagctcgccaaaagatgtatttg	216667	-	see also 10291 line
37525	GSTO2	NM_183239.1	954	aacgagctcgccaaaagatgta	216665	-	see also 10291 line
37526	GSTP1	NM_000852.2	624	tacgtgaacctcccatcaatgg	216683	-	see also 16525 line
37527	GSTP1	NM_000852.2	35	gcccataccctggctctattcc	216679	-	see also 16525 line
37528	GSTT1	NM_000853.1	214	ctctacctcgagcgcaaatata	216688	-	see also 16526 line
37529	GSTT1	NM_000853.1	89	tgcgcatactggatctgataaa	216685	-	see also 16526 line
37530	GSTT2	NM_000854.2	265	ctcgccatctctatttaoctga	216693	-	see also 16527 line
37531	GSTT2	NM_000854.2	413	caggtgttgaggccactcattgg	216696	-	see also 16527 line
37532	GSTZ1	NM_001513.2	814	agcacagcggggcatatacttgt	216703	-	see also 16528 line
37533	GSTZ1	NM_001513.2	552	aacctggaagtatgagaaatca	216697	-	see also 16528 line
37534	LOC51064	NM_015917.1	220	tcccgcgaagagactatcacatgg	216711	-	see also 16529 line
37535	LOC51064	NM_015917.1	59	cgacccgtggagctctctctatga	216710	-	see also 16530 line
37536	MGST1	NM_020300.3	467	cagccaaatagagcttttgagtt	216728	-	see also 16530 line
37537	MGST1	NM_020300.3	348	ttggaattggcctcctgtattcc	216724	-	see also 16530 line
37538	MGST2	NM_002413.3	395	gagtatctggggcacaacaaac	216732	-	see also 16531 line
37539	MGST2	NM_002413.3	294	ctcgccctgcagcaaaagtatt	216730	-	see also 16531 line
37540	MGST3	NM_004528.2	155	gcccacctagcccatcaatgttcc	216748	-	see also 16532 line
37541	MGST3	NM_004528.2	133	tgcgtccagcttataatggtgg	216746	-	see also 16532 line
37542	CHM	NM_000390.1	1928	aggcttaactggagacttccaag	216796	-	see also 310 line
37543	CHM	NM_000390.1	52	gagttgatgtgctgtaataagg	216759	-	see also 310 line
37544	RABGTA	NM_004581.2	1727	gaccocctgcgggcaactatct	216806	-	see also 16534 line
37545	RABGTA	NM_004581.2	1519	cacgacagacagcagcatttca	216804	-	see also 16534 line
37546	PGGT1B	NM_005023.2	411	gacgacttaagccagagtaataa	216831	-	see also 16535 line
37547	PGGT1B	NM_005023.2	71	tccgcacgtcgatttttccagc	216817	-	see also 16535 line
37548	FNTA	NM_002027.1	511	tggcatatagggcgagattatgt	216866	-	see also 1315 line
37549	FNTA	NM_002027.1	265	gtggtcagatcatttatatga	216857	-	see also 1315 line
37550	FNTB	NM_002028.2	1074	acctggcaagtcggctgattct	216878	-	see also 16537 line
37551	FNTB	NM_002028.2	850	agccggcagatccgattgaagg	216876	-	see also 16537 line

図46 (続き)

1030

37552	NS3TP1	NM_019048.1	499	agcggggacccaatagtagtaaa	216881	-	see also 16538 line
37553	NS3TP1	NM_019048.1	503	gggaacccaatagtagtaaaat	216884	-	see also 16538 line
37554	COX10	NM_001303.2	836	aggtagcattgactcaaacatg	216902	-	see also 16539 line
37555	COX10	NM_001303.2	293	aggactccctcacaaagtctta	216953	-	see also 16539 line
37556	GGPS1	NM_004837.2	1007	tacactgtaatacccttaaga	216984	-	see also 16540 line
37557	GGPS1	NM_004837.2	1077	ctgagctagtagccttagtaaaa	216987	-	see also 16540 line
37558	GGPS1	NM_004837.2	1083	tagtagccttagtaaaacattt	216988	-	see also 16540 line
37559	FDPs	NM_002004.1	119	cctgtccgcctgtgtgagatct	216990	-	see also 16541 line
37560	FDPs	NM_002004.1	1015	atggggaggtctttcagattca	216993	-	see also 16541 line
37561	CL640	NM_015897.3	1053	aacgaacactgggactaatagt	217033	-	see also 16542 line
37562	CL640	NM_015897.3	419	agcagcctgtactattaatgaca	217009	-	see also 16542 line
37563	RABGGTB	NM_004582.2	317	tggtagaataagtgctagtatcg	217044	-	see also 16543 line
37564	RABGGTB	NM_004582.2	858	ctgctgaatttctttagcatg	217066	-	see also 16543 line
37565	SMS	NM_004595.2	806	aacgtgtggcagatgtcttagaca	217078	-	see also 16544 line
37566	SMS	NM_004595.2	525	gacgaagctaacattatcaaaa	217089	-	see also 16544 line
37567	HMBS	NM_000190.2	1100	ggcatcactgtcgtgaacattcc	217099	-	see also 16545 line
37568	HMBS	NM_000190.2	946	agccgtgcatacagctatgaagg	217096	-	see also 16545 line
37569	HMBS	NM_000190.2	234	gccagctgtcgtcacacagacg	217089	-	see also 16545 line
37570	DHPS	NM_001930.2	573	gggagaacgggataaataggatc	217104	-	see also 16546 line
37571	DHPS	NM_001930.2	697	gtgacagcctctaagatgctgc	217105	-	see also 16546 line
37572	AGPS	NM_003659.1	941	ctgtaggaggtgggtatctact	217136	-	see also 2478 line
37573	AGPS	NM_003659.1	623	agcgatctctgtatagtattta	217128	-	see also 2478 line
37574	SULT1A3	NM_003166.2	443	ccttcttgaggctcaatgatcc	217182	-	-
37575	HS3ST2	NM_006043.1	859	tacttccgctagctcagattca	217193	-	see also 16548 line
37576	HS3ST2	NM_006043.1	630	ggctctcgacgcagctctcaaca	217187	-	see also 16548 line
37577	HS3ST3A1	NM_006042.1	897	cagtccttctagctcttctact	217205	-	see also 16549 line
37578	HS3ST3B1	NM_006041.1	341	gcctgagtgccggcagatcttgc	217206	-	-
37579	NDST2	NM_003635.2	874	tggagttagtggttttctgtat	217208	-	see also 2453 line
37580	NDST2	NM_003635.2	873	ctggagcttagtctgttttctgta	217207	-	see also 2453 line
37581	NDST3	NM_004784.1	2123	cagaatccttgcgtgacaaacg	217288	-	see also 3295 line
37582	CHST8	NM_022467.3	1773	ctcatgactacgatttcttagg	217300	-	see also 8390 line
37583	CHST8	NM_022467.3	979	gggtcactcgggacttaccagt	217295	-	see also 8390 line
37584	CHST9	NM_031422.1	1062	caccacaatagtattacatcc	217329	-	see also 16553 line
37585	CHST9	NM_031422.1	919	ctgtccactacgggaagcatttg	217324	-	see also 16553 line
37586	TPST1	NM_003596.2	437	aacgtagccagccagctcaaatg	217348	-	see also 2414 line
37587	TPST1	NM_003596.2	1211	atgtaggagctctctcaaaatgg	217374	-	see also 2414 line
37588	TPST2	NM_003595.2	1184	ctcgagctgaccttattgcaaa	217381	-	see also 16555 line
37589	TPST2	NM_003595.2	1247	aacacacagcgggtcttgaaag	217382	-	see also 16555 line
37590	CHST3	NM_004273.2	1782	atgagcctcttggctacaacact	217391	-	see also 2867 line
37591	CHST7	NM_019886.2	717	cctcggaacacggccacttacc	217399	-	see also 7744 line
37592	SULT2A1	NM_003167.2	82	gtcggagcatttcttattgttg	217402	-	see also 16558 line
37593	SULT2A1	NM_003167.2	691	gacgttagaacccgaagaactga	217417	-	see also 16558 line
37594	CHST6	NM_021615.2	1132	gocgggaagccttcaagactcg	217424	-	see also 16559 line
37595	CHST6	NM_021615.2	1354	ccgcctcgaccctccgaaattag	217426	-	see also 16559 line

図 46 (続き)

1031

37596	GHST1	NM_003654.2	1217	ggcgaagtgcgggctactcaacc	217427	-	see also 16560 line
37597	CHST1	NM_003654.2	1585	tggtctggaacccttatgaagaag	217429	-	see also 16560 line
37598	CHST10	NM_004854.2	1349	ccggttggaaggagacttaag	217451	-	see also 3374 line
37599	CHST10	NM_004854.2	1199	aggacatgcccacatcatctta	217447	-	see also 3374 line
37600	CHST2	NM_004267.2	779	gtcgtttctgcggagctattca	217455	-	see also 16562 line
37601	CHST2	NM_004267.2	1552	cactacgagagtgtaagatttt	217461	-	see also 16562 line
37602	CHST5	NM_012126.1	1287	agccaatcgagcccttcact	217468	-	see also 16563 line
37603	CHST5	NM_012126.1	1350	acgcgttgcccttoactaatc	217470	-	see also 16563 line
	GALNAC4						
37604	S-6ST	NM_014863.1	1466	tgggaatcgctgcctaagagatg	217491	-	see also 6063 line
	GALNAC4						
37605	S-6ST	NM_014863.1	1629	tccacgatgtgggataataatgc	217495	-	see also 6063 line
37606	GP3ST	NM_022134.1	971	ggcgccgtctacgagcattcaac	217513	-	see also 16565 line
37607	GP3ST	NM_022134.1	278	cgcggtcaccacacatcatgttc	217506	-	see also 16565 line
37608	HS3ST5	NM_153612.1	512	tactaaatgcgcaaatcttcc	217539	-	see also 16566 line
37609	HS3ST5	NM_153612.1	493	aggtggacccctctgttaact	217538	-	see also 16566 line
37610	NCAG1	NM_032160.1	3482	aacgatggactcaattgttaac	217607	-	see also 16567 line
37611	NCAG1	NM_032160.1	3902	aactaatgcgatggattataa	217629	-	see also 16567 line
37612	NDST4	NM_022569.1	3035	ctgggagttacacctogttataa	217735	-	see also 8422 line
37613	NDST4	NM_022569.1	2256	accgctagggtataacattt	217716	-	see also 8422 line
37614	SULT1B1	NM_014465.2	626	accgactgatctctcctaact	217756	-	see also 16569 line
37615	SULT1B1	NM_014465.2	596	tccatcaccccggtatgtgaaa	217754	-	see also 16569 line
37616	SULT1C1	NM_001036.2	1162	ccatgacaaatctgtctacagt	217781	-	see also 648 line
37617	SULT2B1	NM_004605.2	307	tgcggagcagacacattttatc	217786	-	see also 16571 line
37618	SULT2B1	NM_004605.2	308	ggggacagacacattttatc	217787	-	see also 16571 line
37619	SULT4A1	NM_014351.2	581	ttctgcgggggtttatgaaga	217807	-	see also 16572 line
37620	SULT4A1	NM_014351.2	557	agctaccggagcacccttcaaga	217804	-	see also 16572 line
37621	SULT4A1	NM_014351.2	584	tgcggaggtttatgaatgataa	217809	-	see also 16572 line
37622	UST	NM_005715.1	672	accccgtaaccgggtcttacc	217827	-	see also 3968 line
37623	UST	NM_005715.1	1262	ggccaatcgacgatgaagaaca	217841	-	see also 3968 line
37624	MPST	NM_021126.3	426	ggccaccacgtctgtatctacg	217843	-	see also 16574 line
37625	TST	NM_003312.4	273	ggcgtcgccctacagagatgagc	217845	-	see also 16575 line
37626	TST	NM_003312.4	306	ggctggcttcgagagatgtgg	217846	-	see also 16575 line
37627	TST	NM_003312.4	351	cacgcacgtgggtgtgtatgatg	217847	-	see also 16575 line
37628	OXCT	NM_000436.1	1275	cagctgatctgacaaatgctagg	217873	-	see also 16576 line
37629	OXCT	NM_000436.1	208	atcgccatacacaagttttataca	217853	-	see also 16576 line
37630	OXCT2	NM_022120.1	871	cagcttcataacattatgaga	217877	-	-
37631	OXCT2	NM_022120.1	200	ccggttcctgtccaaagttctac	217875	-	see also 37630 line
37632	OXCT2	NM_022120.1	868	atccacgttcttaacattatgt	217876	-	see also 37630 line
37633	AGXT	NM_000030.1	1141	tagacacattcgacattgagatc	217881	-	see also 16577 line
37634	AGXT	NM_000030.1	893	caggatgtacatcacacaatcc	217879	-	see also 16577 line
37635	AGXT2	NM_031900.1	98	ttcccgagacatgaaccacagc	217882	-	see also 16578 line
37636	AGXT2	NM_031900.1	545	caggcgacactcaaacacatag	217892	-	see also 16578 line
37637	AGXT2L1	NM_031279.2	1356	gccgatggacctcatagaatgt	217941	-	see also 16579 line

図46 (続き)

1032

37638	AGXT2L1	NM_031279.2	232	ttgatcggatcccatcaaaata	217918	-	see also 16579 line
37639	BCAT1	NM_005504.3	742	agggaactctgcggatttga	217958	-	see also 3846 line
37640	BCAT1	NM_005504.3	744	ggaaactctgcggatttga	217959	-	see also 3846 line
37641	BCAT2	NM_001190.1	670	ggggtcggcaactacaagttag	217988	-	see also 16581 line
37642	BCAT2	NM_001190.1	668	ggggtcggcaactacaagttag	217988	-	see also 16581 line
37643	GOT1	NM_002079.1	379	ttcttagcgggttggtacaattg	218000	-	see also 1346 line
37644	GOT1	NM_002079.1	383	tagcgggttggtacaattggaaca	218001	-	see also 1346 line
37645	GOT2	NM_002080.1	865	agggttggtaggagccttoactatg	218042	-	see also 16583 line
37646	GOT2	NM_002080.1	936	atcttgatcgtcccatgtatto	218044	-	see also 16583 line
37647	TAT	NM_000353.1	1267	ggattcacggagcggatttgc	218071	-	see also 16584 line
37648	TAT	NM_000353.1	497	aagctaaggacgtcattctgaca	218057	-	see also 16584 line
37649	PSAT1	NM_021154.3	119	ggcgactcagtggttttagaga	218078	-	see also 16585 line
37650	PSAT1	NM_021154.3	499	cagatgcctcctacgtgtattat	218088	-	see also 16585 line
37651	OAT	NM_000274.1	774	tcggatccaggtaccataatgg	218110	-	see also 16586 line
37652	OAT	NM_000274.1	92	tacttagtcggaggttcattct	218090	-	see also 16586 line
37653	OAT	NM_000274.1	1328	ttcgaggtccatggaattatt	218125	-	see also 16586 line
37654	ABAT	NM_000663.2	836	acgttccacaggctgaataacc	218143	-	see also 425 line
37655	ABAT	NM_000663.2	676	agctggagacgtgcatgattaac	218138	-	see also 425 line
37656	GCBL1	NM_004059.2	947	ggcgtgacacatgatacgtagc	218162	-	see also 2735 line
37657	GCBL1	NM_004059.2	614	agcatgacgtggtgtgtatcact	218160	-	see also 2735 line
37658	GCBL1	NM_004059.2	355	atcatcatcaaaccttttttga	218156	-	see also 2735 line
37659	AADAT	NM_016228.3	1462	ggcgttaagatggagggtattat	218196	-	see also 16589 line
37660	AADAT	NM_016228.3	397	atccggacatgactgacatatt	218164	-	see also 16589 line
37661	AADAT	NM_016228.3	491	ctgcggttaactgttagaaat	218169	-	see also 16589 line
37662	GPT2	NM_133443.1	327	agctcagcggagggtatcaaaaag	218204	-	see also 9578 line
37663	GPT2	NM_133443.1	873	atcctaagggtctctgcataatc	218213	-	see also 9578 line
37664	MGC15875	NM_032921.1	726	agccaccggcgttgagttacttca	218221	-	see also 16591 line
37665	MGC15875	NM_032921.1	729	caccggcgttgagttacttcaaca	218222	-	see also 16591 line
37666	MGC33309	NM_152413.1	472	aggatgctcgtatgatttacaact	218251	-	see also 16592 line
37667	MGC33309	NM_152413.1	465	tgccataaggatgctcgtatagtt	218250	-	see also 16592 line
37668	PHACS	NM_032592.1	1728	ggcaaggccttcgggtgtaaaaga	218293	-	see also 9257 line
37669	PHACS	NM_032592.1	1521	gtgtactctgcggaaaaccatgc	218289	-	see also 9257 line
37670	PHACS	NM_032592.1	1394	cagctgtacacagaaaccacagg	218288	-	see also 9257 line
37671	SCLY	NM_016510.3	96	cgcggaggaggaagtttatatg	218297	-	see also 16594 line
37672	SCLY	NM_016510.3	94	ctcgcggaggaggaagtttata	218295	-	see also 16594 line
37673	TALDO1	NM_006755.1	351	ggccgagttatccacagaagtaga	218318	-	see also 16595 line
37674	TALDO1	NM_006755.1	695	gggtgtacttaataatcaact	218329	-	see also 16595 line
37675	ACAT2	NM_005891.1	833	aagtcagaagcgtgataaacgtgg	218344	-	see also 16596 line
37676	ACAT2	NM_005891.1	1108	atctgggtgtcgaattcttctga	218352	-	see also 16596 line
37677	ALG2	NM_033087.1	288	ggcgtacgtgcgcatggttttc	218354	-	see also 16597 line
37678	ALG2	NM_033087.1	768	agctgcgtggaagattgacatcc	218367	-	see also 16597 line
37679	C20orf155	NM_019095.3	857	agctgcgtcagcttatttact	218403	-	see also 7703 line
37680	C20orf155	NM_019095.3	329	cccatggacaatccgaattatgt	218378	-	see also 7703 line
37681	CARKL	NM_013276.1	493	cagatgtagcagcgaattcctctgg	218409	-	see also 16599 line

図46 (続き)

1033

37682	CARKL	NM_013276.1	1309	gtccggaggcattgttcagaacc	218414	-	see also 16599 line
37683	CAS1	NM_022900.3	2013	aggtagaccgttatgtgtttt	218494	-	see also 8521 line
37684	CDSN	NM_001264.2	557	ctcttaaccgggaataactaaacc	218518	-	see also 16601 line
37685	CDSN	NM_001264.2	1549	agctagctaccctgaagtcttc	218526	-	see also 16601 line
37686	CDSN	NM_001264.2	555	aactcttaaccgggaataactaaa	218517	-	see also 16601 line
37687	ChGn	NM_018371.3	1434	cacgcttaataatgttatctgtc	218547	-	see also 7426 line
37688	ChGn	NM_018371.3	1341	agggaacacacacacgaattca	218542	-	see also 7426 line
37689	CHST11	NM_018413.2	924	agcggtacggcaccacgaatcatc	218561	-	see also 7453 line
37690	CHST11	NM_018413.2	1211	aagtctacgagaactactatgata	218566	-	see also 7453 line
37691	CHST12	NM_018641.2	179	tgttgaggctcgggttcattgata	218570	-	see also 7534 line
37692	D4ST-1	NM_130468.2	959	tgcaggcgacgatgtcacattcc	218579	-	see also 16604 line
37693	D4ST-1	NM_130468.2	1064	ttgtgcgtgcactatgactttg	218581	-	see also 16604 line
37694	DHDS	NM_024887.1	765	ccgttctgtggcagagtatac	218597	-	see also 8801 line
37695	FLJ12171	NM_024619.2	738	ttctacggccaactcggaatatga	218608	-	see also 16606 line
37696	FLJ12171	NM_024619.2	338	agccacgtgcccgaattacaacc	218606	-	see also 16606 line
37697	FN3K	NM_022158.2	702	tacgaccgggttccttctatgg	218620	-	see also 8317 line
37698	FN3K	NM_022158.2	487	aggatgactggccgacotttttc	218616	-	see also 8317 line
37699	FN3K	NM_022158.2	600	aagatcccggtctgtttgtgg	218619	-	see also 8317 line
37700	GAL3ST-4	NM_024637.3	846	cactacgtcgaactactatg	218625	-	see also 16608 line
37701	GAL3ST-4	NM_024637.3	843	gaccactacgtcgaactact	218624	-	see also 16608 line
37702	GAL3ST2	NM_033036.1	1356	cagccgcaaggtggacattatgg	218637	-	see also 16609 line
37703	GAL3ST2	NM_033036.1	966	ccgccaggtggagagggtttct	218636	-	see also 16609 line
37704	GALGT2	NM_153446.1	1078	tcggagattatgagagattatc	218663	-	see also 16610 line
37705	GALGT2	NM_153446.1	1071	atcatgtccgggattatcgaga	218661	-	see also 16610 line
37706	GALGT2	NM_153446.1	243	cgcctcagggtcctgagattttt	218639	-	see also 16610 line
37707	GALNACT	NM_018590.3	1056	gacottacgggaatatagacatgt	218695	-	see also 7528 line
37708	-2	NM_018590.3	984	gacttcgtagaaggttattatcg	218694	-	see also 7528 line
37709	GALNT12	NM_024642.2	651	tgcggcgaggcgagattcttga	218716	-	see also 8675 line
37710	GALNT12	NM_024642.2	1669	gacagtttcttccactcttacc	218735	-	see also 8675 line
37711	GALNT12	NM_024642.2	1704	ctcggatcaccagaatggttct	218737	-	see also 8675 line
37712	GALNT14	NM_024572.1	1624	ctgcctcgtacacagatattctc	218766	-	see also 16613 line
37713	GALNT14	NM_024572.1	749	tgcctgtatagatatataaa	218749	-	see also 16613 line
37714	HS2ST1	NM_012262.2	1343	gcccattgcgttcgagaaaaaga	218797	-	see also 5242 line
37715	HS2ST1	NM_012262.2	1342	agcccatgccgttcgagaaaaag	218796	-	see also 5242 line
37716	HS2ST2	NM_147174.2	465	gcccggtggttcagagaataatgc	218803	-	see also 9811 line
37717	HS2ST2	NM_147174.2	1051	ttcgccatttaaccagataata	218810	-	see also 9811 line
37718	HS2ST3	NM_153456.1	1208	aacgattgaggatctaacttc	218827	-	see also 9995 line
37719	HS2ST3	NM_153456.1	1240	cagcttacgagatgcaaaaga	218830	-	see also 9995 line
37720	KIAA0290	NM_015122.1	1628	ctctctgtcccgaaacgttg	218843	-	see also 6256 line
37721	KIAA0290	NM_015122.1	635	gcccaagtcccgagaaactacc	218833	-	see also 6256 line
37722	KIAA0290	NM_015122.1	1944	tgcctctcacagtagcaatgg	218844	-	see also 6256 line
37723	MAT2B	NM_013283.3	1025	gccaaacgaacaccattcggaatt	218868	-	see also 16618 line

1034

図46 (続き)

37724	MAT2B	NM_013283.3	1024	ggcgaacgaacacatttcgaat	218867	-	see also 16618 line
37725	MMAB	NM_052845.1	687	ttcaagctagccagatagcgc	218880	-	see also 16619 line
37726	MMAB	NM_052845.1	643	atcgaaactggccaagtcttta	218879	-	see also 16619 line
37727	MTRR	NM_002454.1	650	gtcgagcttcgagattcgatga	218903	-	see also 16620 line
37728	MTRR	NM_002454.1	1310	ggcgattatagccgcttctgacg	218929	-	see also 16620 line
37729	MTRR	NM_002454.1	1718	acgggaatagcccgctttattgg	218944	-	see also 16620 line
37730	PIGM	NM_145167.1	646	cgcggtaatcgggactctattgt	218962	-	see also 16621 line
37731	PIGM	NM_145167.1	830	tccgtcaattccggtacacttc	218976	-	see also 16621 line
37732	PNR	NM_003967.1	484	ccgcagcatacaacttcttatt	219002	-	see also 16622 line
37733	PNR	NM_003967.1	123	tgcagcagcatgctgattatcg	218998	-	see also 16622 line
37734	PTDSS1	NM_014754.1	469	ttcgagcaggttaaatctctaat	219012	-	see also 5944 line
37735	TBDN100	NM_025085.2	1096	atgttagaaggctaaataaatta	219067	-	see also 8853 line
37736	TBDN100	NM_025085.2	679	aaggaaacgaggtatcagttact	219050	-	see also 8853 line
37737	TPT	NM_014317.2	1134	gacagagctcgacagtatgtact	219144	-	see also 16625 line
37738	TPT	NM_014317.2	925	tgcctatcagctacggaaaaaat	219136	-	see also 16625 line
37739	TPT	NM_014317.2	916	tgcattgagatcgctctatcagtac	219135	-	see also 16625 line
37740	WBSOR17	NM_022479.1	391	gaocgttcattccggtattatcg	219152	-	see also 16626 line
37741	WBSOR17	NM_022479.1	1763	gtcagaggtggaccattagaac	219167	-	see also 16626 line
37742	AKAP28	NM_178813.3	588	tggttcgcttggagaaactgg	219177	-	see also 16627 line
37743	AKAP28	NM_178813.3	255	aggagcgaaaccccttgaaaaac	219171	-	see also 16627 line
37744	ALSOR8	NM_024744.1	1030	tggacaggtactctcgtaattc	219195	-	see also 8723 line
37745	ALSOR8	NM_024744.1	2582	gctccacatgggttaaccttc	219233	-	see also 8723 line
37746	C9orf12	NM_022755.3	610	tacgtatgctctctctaatt	219245	-	see also 16629 line
37747	C9orf12	NM_022755.3	317	accacggagaggggcaataagagc	219242	-	see also 16629 line
37748	CDK5R2	NM_003936.2	1120	ttcttcacgcaggtctttcaaga	219256	-	kinase_related, cell_cycle
37749	CDK5R2	NM_003936.2	845	ggcaagaccagccttcattacg	219255	-	see also 37748 line
37750	CDKN1B	NM_004084.2	926	gacctgcaaccgacgattctct	219266	-	see also 2742 line
37751	CDKN1B	NM_004084.2	898	ggaggagcaatggcagggaataag	219264	-	see also 2742 line

1035

図46 (続き)

37752	CDKN2A	NM_000077.2	677	ggcaccagagggcagtaaccatgc	219272	-	kinase_related, cell cycle	-	transitional cell carcinoma(膀胱移行上皮癌)、 rhabdomyosarcoma(肉状横紋筋肉腫)、 ependymoma(上毛細胞腫)、soft tissue sarcoma(軟部組織肉腫)、colorectal cancer(大腸 癌)、bladder cancer(膀胱癌)、breast cancer(乳 癌)、lung cancer(肺癌)、melanoma(メラノーマ)、 osteosarcoma(骨髄性骨肉腫)、pancreatic cancer(膵臓癌)、Ewing's sarcoma(ユーイング肉 腫)、ocular melanoma(眼メラノーマ)、dysplastic nevus syndrome(デイスプラスチック・ネーバス症 候群)、head and neck cancer(頭頸部癌)、 colorectal cancers(結腸直腸癌)、non-small-cell lung cancer(非小細胞肺癌)、squamous cell carcinoma(扁平上皮細胞癌)、nerve sheath tumors(髄鞘腫瘍)、head and neck squamous cell carcinoma(頭頸部扁平上皮細胞癌)、 mesothelioma(中皮腫)、astrocytic tumors(星状 腫瘍)、squamous cell cancer(扁平上皮癌)、 Wilms tumor(Wilms腫瘍)、bladder squamous cell carcinoma(膀胱扁平上皮癌)、skin cancer(皮膚
37753	CINP	NM_032630.2	142	atggagctgattggcacaattta	219277	-	see also 16631 line	-	
37754	CINP	NM_032630.2	143	tgcggctgattggcacaatttaa	219278	-	see also 16631 line	-	
37755	DKFZP434								
37755	N1923	NM_030974.2	655	ggccctggagtcagtttctaca	219287	-	see also 16632 line	-	
37756	DVL3	NM_004423.2	1622	gtgacatggctgcacatcgttaaaa	219305	-	see also 16633 line	-	
37757	DVL3	NM_004423.2	854	atgcaaacccggctaaatgggaact	219296	-	see also 16633 line	-	
37758	FLJ12476	NM_022784.1	1354	gtctacatgcagccgtcaaatct	219335	-	see also 16634 line	-	
37759	FLJ12476	NM_022784.1	2064	ggccttaacccctgcctatagtaga	219352	-	see also 16634 line	-	
37760	GKAP42	NM_025211.2	956	tgcggagatcaacattagtaaaa	219373	-	see also 16635 line	-	
37761	GKAP42	NM_025211.2	440	ttctcgtttgcccctgttacaag	219362	-	see also 16635 line	-	
37762	HINT3	NM_138571.3	384	tgcgagatggagaccctaatgg	219388	-	see also 16636 line	-	
37763	HINT3	NM_138571.3	476	cagaactctaaggaaagataaag	219391	-	see also 16636 line	-	
37764	IKBKAP	NM_003640.2	1440	gaccggagcgtgggagataatc	219419	-	see also 2458 line	-	
37765	IKBKAP	NM_003640.2	1441	accggagcgtgggagataatc	219420	-	see also 2458 line	-	
37766	IKBKAP	NM_003640.2	2133	cagaccgaattggccatgttgg	219441	-	see also 2458 line	-	
37767	ITPK1	NM_014216.2	1040	ggcagcacgcctcattgacatc	219501	-	see also 5540 line	-	
37768	ITPK1	NM_014216.2	722	caccctcgtggtccagaatttc	219496	-	see also 5540 line	-	
37769	LOC14746	NM_173505.1	993	tccggcgaactaaccaaaaat	219514	-	see also 16639 line	-	
37770	LOC14746	NM_173505.1	465	ggcctcacctgaatttaggacc	219504	-	see also 16639 line	-	
37771	LOC55971	NM_018842.3	255	ggagcactaccgggaatttatgg	219518	-	see also 16640 line	-	
37772	LOC55971	NM_018842.3	1708	gcgccactgtgacgaatgatcg	219556	-	see also 16640 line	-	
37773	MADD	NM_003682.2	1966	atcgcgtctatgacagcaattcc	219595	-	see also 2499 line	-	
37774	MADD	NM_003682.2	4397	gtcgcacattggccttctgtaca	219640	-	see also 2499 line	-	
37775	MAP3K7IP	NM_015093.2	1688	cacctcacggaccctacattagc	219700	-	see also 6230 line	-	

図46 (続き)

1036

37776	NYD-SP25	NM_033516.2	450	tccaagagctggctgtatgtca	219724	-	see also 16643 line
37777	NYD-SP25	NM_033516.2	242	gacctgtgtggcacatgaat	219719	-	see also 16643 line
37778	P101-P13K	NM_014308.1	839	cagcggctggaggaanaagctgg	219726	-	see also 16644 line
37779	P101-P13K	NM_014308.1	1711	cacacggcttctcaactcagt	219729	-	see also 16644 line
37780	P15RS	NM_018170.2	719	aagcaactcactcgaattgttagc	219751	-	see also 16645 line
37781	P15RS	NM_018170.2	416	aagcgaacttatgaacagataaa	219741	-	see also 16645 line
37782	SKP2	NM_005983.2	741	gacctatgaactcagttataga	219766	-	see also 4182 line
37783	SKP2	NM_005983.2	1206	ctcactcgtgtctatgatataat	219784	-	see also 4182 line
37784	SKP2	NM_005983.2	426	gtccgacgacctgaagctaatcgc	219756	-	see also 4182 line
37785	STAP2	NM_017720.1	1278	ggacccaaagtcttaattgttg	219815	-	see also 16647 line
37786	STAP2	NM_017720.1	661	cgcacgtgtctcggcattacaag	219809	-	see also 16647 line
37787	TSKS	NM_021733.1	1478	cagctgtcagagctacacaaga	219821	-	see also 16648 line
37788	TSKS	NM_021733.1	1643	ggcactctggaccactacact	219823	-	see also 16648 line
37789	DHRS2	NM_005794.2	1231	tacgtcaacggggagagacattgc	219831	-	see also 16649 line
37790	DHRS2	NM_005794.2	978	ggcgtgggtgtctacaatgtca	219828	-	see also 16649 line
37791	HSD17B1	NM_000413.1	1161	ctggacgttaaggagactcaaaatc	219834	-	estradiol 17 beta-dehydrogenase -
37792	HSD17B1	NM_000413.1	1162	tggacgttaaggagactcaaaatcc	219835	-	see also 37791 line
37793	HSD17B1	NM_000413.1	1802	cgcactgaaccgggaagtgttcg	219836	-	see also 37791 line
37794	HSD17B2	NM_002153.1	488	cagctgattgccggagtttga	219845	-	see also 16650 line
37795	HSD17B2	NM_002153.1	496	ttgcggaggtttgaatgaat	219847	-	see also 16650 line
37796	HSD17B3	NM_000197.1	241	togttcagctagcaaaacgtgg	219871	-	see also 16651 line
37797	HSD17B3	NM_000197.1	238	tactgttcagctagcaaaacg	219870	-	see also 16651 line
37798	HSD17B7	NM_016371.1	733	cgtgtgtgacggcggaattg	219893	-	see also 16652 line
37799	HSD17B7	NM_016371.1	690	ttgacaaattgacatatgaat	219891	-	see also 16652 line
37800	HSD17B8	NM_014234.3	446	aagccctggtgtccaatgtgtg	219897	-	see also 5551 line
37801	H105E3	NM_015922.1	231	gtcgcacggagctcatttgacaga	219902	-	see also 6572 line
37802	H105E3	NM_015922.1	643	ttgagggcgtcgatatcaagaat	219914	-	see also 6572 line
37803	HSD3B1	NM_000862.1	680	tgccttacgacccatgtatct	219919	-	see also 16655 line
37804	HSD3B1	NM_000862.1	775	ttgaaaagttctccactgtaac	219920	-	see also 16655 line
37805	HSD3B2	NM_000198.1	692	tgcgttaagacccacatatct	219922	-	see also 16656 line
37806	HSD3B2	NM_000198.1	886	gtgtccgaggttcaattctattac	219923	-	see also 16656 line
37807	HSD3B7	NM_025193.2	1151	gcccgaaccgtaccattctctgg	219928	-	see also 16657 line
37808	HSD3B7	NM_025193.2	554	tgcacaggcacccctctcttgc	219926	-	see also 16657 line
37809	HSPC105	NM_145168.1	338	ggcgggagcaactcaatcgaaac	219937	-	see also 16658 line
37810	HSPC105	NM_145168.1	532	cactactctgagcaaaagtoaat	219943	-	see also 16658 line
37811	HSD11B1	NM_005525.2	932	ctctactcaacggactataat	219978	-	see also 3860 line
37812	HSD11B1	NM_005525.2	930	ttctctactcaacggactataat	219977	-	see also 3860 line
37813	HSD11B2	NM_000196.2	446	ggccaccgtattggagttgaaca	219981	-	11-beta-hydroxysteroid dehydrogenase -
37814	HSD11B2	NM_000196.2	612	aacacagcaggccacaatgaagt	219982	-	see also 37813 line
37815	HSD11B2	NM_000196.2	1062	tccgacctcaaccagttgtaga	219985	-	see also 37813 line
37816	HADH2	NM_004493.1	782	ggctggatggggccattgtatg	219997	-	see also 16660 line

図46 (続き)

1037

37817	HADH2	NM_004493.1	578	gggattgggtcccataggatc	219996	-	see also 16660 line
37818	LDHA	NM_005566.1	808	tgtctatgaggtgatcaactca	220003	-	see also 16661 line
37819	LDHA	NM_005566.1	252	atgtatcagaagaacaattgaag	220001	-	see also 16661 line
37820	LDHB	NM_002300.3	917	atccgtgtcaacattgtaag	220035	-	see also 16662 line
37821	LDHB	NM_002300.3	998	gggattaacacagcgttatcaac	220037	-	see also 16662 line
37822	LDHC	NM_002301.2	497	aacgtaagtgggtataatgaaa	220047	-	see also 16663 line
37823	LDHC	NM_002301.2	718	tgccatgtggattattggaga	220052	-	see also 16663 line
37824	LDHC	NM_002301.2	527	ttctgcattatgcattatagt	220050	-	see also 16663 line
37825	LDHL	NM_033195.1	1126	tcttggggagaaacgattatcc	220064	-	see also 16664 line
37826	LDHL	NM_033195.1	1007	atctgtggcccgatttaacagaaa	220063	-	see also 16664 line
37827	MGC23940	NM_144972.1	323	cacaataagatcctcattgtagg	220069	-	see also 16665 line
37828	MGC23940	NM_144972.1	271	aactatcaagagtgaaacttatt	220066	-	see also 16665 line
37829	UEV3	NM_018314.2	629	ctcggattcctgcacattagc	220087	-	see also 16666 line
37830	UEV3	NM_018314.2	515	ttgtagcctatttgcaaaaat	220082	-	see also 16666 line
37831	EHADH	NM_001966.1	63	cgcggatcaacgcgatcagtagc	220102	-	see also 16667 line
37832	EHADH	NM_001966.1	71	aacgcgatcagtagcagatttact	220103	-	see also 16667 line
37833	EHADH	NM_001966.1	73	cgcgatcagtagcagatttactcc	220104	-	see also 16667 line
37834	HADHSC	NM_005327.1	721	aaggacactcctgggttattgt	220176	-	see also 16668 line
37835	HADHSC	NM_005327.1	143	cggcctcggcgaagaagataatc	220169	-	see also 16668 line
37836	IDH3A	NM_005530.2	430	acccttacacogagtgtaaatat	220192	-	see also 16669 line
37837	IDH3A	NM_005530.2	513	tggagtgctcagagattatcagc	220196	-	see also 16669 line
37838	IDH3B	NM_006899.2	353	ttcatacccgatggagataaag	220212	-	see also 4832 line
37839	IDH3B	NM_006899.2	880	gtccctgtgagagctatagtgc	220228	-	see also 4832 line
37840	IDH1	NM_005896.2	603	atggatataacacctatcattatag	220252	-	see also 4099 line
37841	IDH1	NM_005896.2	595	gtgagtggatggataaaacctat	220250	-	see also 4099 line
37842	IDH2	NM_002168.2	193	ggcgcacactatgccgacaaaagg	220273	-	see also 1390 line
37843	IDH2	NM_002168.2	253	atgagatgacccgtattattctgg	220276	-	see also 1390 line
37844	RDH5	NM_002905.1	680	ggggcgggagtagctcatttg	220296	-	see also 16672 line
37845	RDH5	NM_002905.1	345	accacactgttgattatcactga	220294	-	see also 16672 line
37846	RDH8	NM_015725.1	258	tgcaccccgagcgtgtgtatgt	220301	-	receptor activity
37847	RDH8	NM_015725.1	833	agcttctggcgcaggtttctatg	220308	-	see also 37846 line
37848	RDH8	NM_015725.1	260	caccccgagcgtgtgtatctcc	220302	-	see also 37846 line
37849	RODH-4	NM_003708.2	1202	tgcacacggtcccaatgaattg	220314	-	see also 16673 line
37850	RODH-4	NM_003708.2	925	agccacactgagagataagattgt	220312	-	see also 16673 line
37851	AKR1A1	NM_006066.2	612	tacggcaatgagcctgagattgg	220324	-	see also 16674 line
37852	AKR1A1	NM_006066.2	848	tgtgatggactatatgtctacg	220327	-	see also 16674 line
37853	AKR1A1	NM_006066.2	954	ttcaacagctggcagattgatga	220328	-	see also 16674 line
37854	AKR1B1	NM_001628.2	613	ctgcaagtaaacagattgattgc	220339	-	see also 16675 line
37855	AKR1B1	NM_001628.2	80	aagccgctctctctcaacaacg	220336	-	see also 16675 line
37856	AKR1A2	NM_003689.1	305	ggccaacctgggatggaaaat	220347	-	electron
37857	AKR1A2	NM_003689.1	306	ggccaacctgggatggaaaatc	220348	-	see also 37856 line
37858	HIBADH	NM_152740.1	899	tcctcggctaaataactcagg	220378	-	see also 16676 line
37859	HIBADH	NM_152740.1	408	cccaacagatcaatgaataga	220360	-	see also 16676 line
37860	IMPDH1	NM_000883.2	1404	gggctgagcgtatagattgtgg	220401	-	see also 574 line

1038

図46 (続き)

37861	IMPDH1	NM_000883.2	1083	ctccgagacacatgcactttcttg	220393	-	see also 574 line
37862	IMPDH2	NM_000884.1	418	aggatcgctgcggatgtttt	220416	-	see also 16678 line
37863	IMPDH2	NM_000884.1	1477	cccaagtcgcagccatgatgac	220428	-	see also 16678 line
37864	IMPDH2	NM_000884.1	462	ttctgcgtatcccatcacaga	220417	-	see also 16678 line
37865	ME1	NM_002395.2	1376	aaccagagcagctgaatttg	220469	-	see also 16679 line
37866	ME1	NM_002395.2	486	atccacgacgcagggcatatgc	220444	-	see also 16679 line
37867	ME1	NM_002395.2	489	cagatcagggcatatgttc	220445	-	see also 16679 line
37868	ME3	NM_006680.1	168	ctgaagaagcgcggatcacgatg	220484	-	see also 16680 line
37869	ME3	NM_006680.1	301	ttctccgaatcatgatatcat	220487	-	see also 16680 line
37870	GBA2	NM_020944.2	2330	atggctcgcgtcaatgcatatt	220540	-	see also 8043 line
37871	GBA2	NM_020944.2	2332	ggctccgcgtcaatgcatatt	220542	-	see also 8043 line
37872	HMGCR	NM_000859.1	727	gcccgaagggtgctcaattgg	220593	-	see also 16682 line
37873	HMGCR	NM_000859.1	726	agccgcgagggctgccaattg	220592	-	see also 16682 line
37874	GPD1	NM_005276.2	367	aacgcactggcatatctttat	220651	-	see also 16683 line
37875	GPD1	NM_005276.2	368	acgcactggcatatctttat	220652	-	see also 16683 line
37876	KIAA0089	NM_015141.2	624	tcgaattaccgtggttgatg	220668	-	see also 16684 line
37877	KIAA0089	NM_015141.2	556	accacatcggcagcaagaata	220664	-	see also 16684 line
37878	G6PD	NM_000402.2	1846	tcgtgagggctggcgatttc	220679	-	see also 16685 line
37879	G6PD	NM_000402.2	1739	gacctacggcaacagatacaga	220678	-	see also 16685 line
37880	G6PD	NM_000402.2	1849	gtgagggctggcgatttcacc	220680	-	see also 16685 line
37881	CBR1	NM_001757.1	517	atgagcgctcagagccctaaag	220684	-	see also 16686 line
37882	CBR1	NM_001757.1	521	gcgtgagggccctaaagctgc	220685	-	see also 16686 line
37883	CBR3	NM_001236.2	318	atccaatgccctttacattaaa	220693	-	see also 16687 line
37884	CBR3	NM_001236.2	315	atgatccaatgccctttgacatt	220692	-	see also 16687 line
37885	HPGD	NM_000860.2	513	agcgttggtgctgaatcttatga	220715	-	see also 16688 line
37886	HPGD	NM_000860.2	398	gggtggaaggcggcgatcattc	220705	-	see also 16688 line
37887	MDH1	NM_005917.2	952	ttgtgaaggtctccctattaat	220752	-	see also 4138 line
37888	MDH1	NM_005917.2	204	ctggacggtgctcctaatggaact	220729	-	see also 4138 line
37889	MDH2	NM_005918.2	137	cagcaactcggcccgagaacaatg	220757	-	see also 16690 line
37890	MDH2	NM_005918.2	138	agcacctcggcccgagaacaatgc	220758	-	see also 16690 line
37891	SPR	NM_003124.2	786	cactggactctatgacaaata	220779	-	see also 16691 line
37892	SPR	NM_003124.2	787	actggactctatgacaaataa	220780	-	see also 16691 line
37893	PHGDH	NM_006623.2	772	cagcaagcgttgctgaatgaca	220782	-	see also 16692 line
37894	PHGDH	NM_006623.2	184	cccttgctcgggaagatcttgc	220781	-	see also 16692 line
37895	UGDH	NM_003359.1	1023	ttccggatcatagatgtctgt	220813	-	see also 2267 line
37896	UGDH	NM_003359.1	1253	cccgctcgtgacatttccaag	220821	-	see also 2267 line
37897	BDH	NM_004051.2	325	tggaagcaagaccccatcttgc	220839	-	see also 2731 line
37898	BDH	NM_004051.2	767	gtgcggatgacgaatctttct	220847	-	see also 2731 line
37899	ME2	NM_002396.2	1527	ctctgaacacccggcatattag	220894	-	see also 1541 line
37900	ME2	NM_002396.2	1626	taccacccgttgctaatatca	220896	-	see also 1541 line
37901	AKR1C4	NM_001818.2	409	ggagccactaccataaagatga	220904	-	see also 16696 line
37902	AKR1C4	NM_001818.2	405	aggtagaccccatcaccataaag	220903	-	see also 16696 line
37903	AKR1C3	NM_003739.4	658	ttcaaccggagtaattgtctaga	220914	-	see also 16697 line
37904	AKR1C3	NM_003739.4	662	accggagtaattgtctagatttc	220915	-	see also 16697 line

図46 (続き)

1039

37905	GRHPR	NM_012203.1	773	cagggcgagcgtcgttaaacagg	220930	-	see also 5197 line
37906	GRHPR	NM_012203.1	770	cagcagggcgagcgtcgttaaac	220929	-	see also 5197 line
37907	UBE1DC1	NM_024818.2	453	acotttccgtgacgaatagtagg	220947	-	see also 8764 line
37908	UBE1DC1	NM_024818.2	1022	tgggattttagtacaaaacgtgt	220972	-	see also 8764 line
37909	HAO1	NM_017545.2	1013	aagatgtctctcgagatactaaag	221006	-	see also 7024 line
37910	HAO1	NM_017545.2	527	tgatgatgtcggttaacagattc	220994	-	see also 7024 line
37911	HAO2	NM_016527.1	1083	cagtcgtcgagatcaatcgaaac	221023	-	see also 16701 line
37912	HAO2	NM_016527.1	565	cagcgacatgacattcgaacc	221012	-	see also 16701 line
37913	CYP11B2	NM_000498.2	1203	gacattggtacagattttctct	221025	-	see also 16702 line
37914	CYP39A1	NM_016593.3	493	gtgcaaaatctgtttatctgtac	221034	-	see also 6936 line
37915	CYP39A1	NM_016593.3	339	tgggaaagccctctagaattta	221029	-	see also 6936 line
37916	CYP7B1	NM_004820.2	331	cccggtgagcctccattgataa	221066	-	see also 16704 line
37917	CYP7B1	NM_004820.2	389	tacgaaaagacccttaaggctc	221069	-	see also 16704 line
37918	CYP7B1	NM_004820.2	1152	agcagtcgtcgacaaaatgacc	221094	-	see also 16704 line
37919	CYP21A2	NM_000500.4	242	cagcccgagcctcccaatctatct	221109	-	see also 16705 line
37920	CYP21A2	NM_000500.4	724	gggcaactggctccatccaaattg	221113	-	see also 16705 line
37921	CYP17A1	NM_000102.2	571	gtcttctggcggtgaaccaatgt	221124	-	see also 16706 line
37922	CYP17A1	NM_000102.2	257	ttcgtatggcgacaaagactaca	221120	-	see also 16706 line
37923	CYP17A1	NM_000102.2	1338	ctcacccgtcagtaagctatttgc	221142	-	see also 16706 line
37924	CYP8B1	NM_004391.1	834	ttcgcttctgatttaactcttg	221151	-	see also 2952 line
37925	CYP11A1	NM_000781.1	324	ggcaacgtggagctgggtttatgt	221168	-	see also 16708 line
37926	CYP11A1	NM_000781.1	176	tctctgcctctccatgagatcc	221166	-	see also 16708 line
37927	CYP11A1	NM_000781.1	171	cgcagtcctgcctccctccaatga	221163	-	see also 16708 line
37928	CYP7A1	NM_000780.2	307	tccctgtatcaccataaagtggt	221187	-	see also 481 line
37929	CYP7A1	NM_000780.2	326	gtgtgtgcccagggaaaatattt	221189	-	see also 481 line
37930	CH25H	NM_003956.2	764	tgcacttctcgtcgtactttac	221229	-	see also 16710 line
37931	CH25H	NM_003956.2	767	aacttctcgtcgtactttacaca	221230	-	see also 16710 line
37932	CYP27A1	NM_000784.2	1402	cccaaaaactccggatcataga	221240	-	see also 16711 line
37933	CYP27A1	NM_000784.2	1410	ctcccggtatcatagaaaggaaa	221241	-	see also 16711 line
37934	CYP46A1	NM_006668.1	267	tcttgagtcgttgtaagaagttcc	221248	-	see also 16712 line
37935	CYP46A1	NM_006668.1	266	gtcctgagtcgttgtaagaagttc	221247	-	see also 16712 line
37936	CYP46A1	NM_006668.1	444	ctccttggtagtcttaagtgaaa	221255	-	see also 16712 line
37937	FMO1	NM_002021.1	752	atgggtgataagccgaattttg	221274	-	see also 16713 line
37938	FMO1	NM_002021.1	1144	aggccctactgtacaaagtatc	221286	-	see also 16713 line
37939	FMO3	NM_006894.3	476	atggtttgttcggacatcatgt	221303	-	see also 4825 line
37940	FMO3	NM_006894.3	525	ttccaggaactaaaccacttaaa	221306	-	see also 4825 line
37941	FMO4	NM_002022.1	1319	atcgcccttatcgcccttaagg	221370	-	see also 16715 line
37942	FMO4	NM_002022.1	1323	gccttatcgcccttaaggatcc	221372	-	see also 16715 line
37943	FMO4	NM_002022.1	437	ttccacaaagattatcctaattt	221341	-	see also 16715 line
37944	FMO5	NM_001461.1	943	gactgtgccaatctgatatcttc	221414	-	see also 1015 line
37945	FMO5	NM_001461.1	596	tccacagtcgagactataagaac	221401	-	see also 1015 line
37946	FMO5	NM_001461.1	944	acctgccaatctgatatcttct	221415	-	see also 1015 line
37947	CYP4F8	NM_007253.2	323	atctgcgatctgtctaatcaac	221441	-	see also 16717 line
37948	CYP4F8	NM_007253.2	1502	cgcaggacgcggagattgtttt	221451	-	see also 16717 line

図 46 (続き)

1040

37949	SQLE	NM_003129.2	1791	ttgaatctatgccgtgtattt	221488	-	see also 16718 line
37950	SQLE	NM_003129.2	888	atcacggaagattcatcatgagt	221485	-	see also 16718 line
37951	SQLE	NM_003129.2	401	ttgcctctctctcgtgattct	221453	-	see also 16718 line
37952	TYR	NM_000372.2	1268	caccocacaaatcctaactact	221507	-	see also 16719 line
37953	TYR	NM_000372.2	1466	ctgagtttgaccaatgatgaac	221513	-	see also 16719 line
37954	KMO	NM_003679.1	1108	cggatttcagaccctcatcatgt	221550	-	see also 16720 line
37955	KMO	NM_003679.1	829	tcggatggccatccctctaattg	221545	-	see also 16720 line
37956	CYP27B1	NM_000785.2	1460	tggcttggcccgagatcctaaca	221569	-	see also 16721 line
37957	CYP27B1	NM_000785.2	829	tggaccagatgtttgcaattgc	221562	-	see also 16721 line
37958	CYP26A1	NM_000783.2	758	gcggcgcacgagcagaaacattcg	221575	-	see also 484 line
37959	CYP26A1	NM_000783.2	885	tgcagcactaaagcaactctca	221576	-	see also 484 line
37960	CYP2J2	NM_000775.2	344	gaccctatgcgagaacatatct	221598	-	see also 16723 line
37961	CYP2J2	NM_000775.2	346	cccttatgcgagaacatatcttt	221599	-	see also 16723 line
37962	CYP2J2	NM_000775.2	964	tgcgatgggctctgcttttatgt	221612	-	see also 16723 line
37963	COQ6	NM_182476.1	911	tgcagcagagctagttagcatgg	221634	-	see also 16724 line
37964	COQ6	NM_182476.1	1257	ctcagtagcgagccttcaatgg	221637	-	see also 16724 line
37965	COQ6	NM_182476.1	498	ggctatatcgtggagaatgatgt	221625	-	see also 16724 line
37966	CYP19A1	NM_000103.2	161	accgatacattataacatcacc	221649	-	see also 69 line
37967	CYP19A1	NM_000103.2	155	tgcagaccgagacatacataaac	221648	-	see also 69 line
37968	CYP1A1	NM_000499.2	1330	agggcgctgtgtctttgttaaac	221689	-	see also 16726 line
37969	CYP1A1	NM_000499.2	141	atgtcggccagcgagttctttct	221678	-	see also 16726 line
37970	CYP1A2	NM_000761.2	614	gggcacttcgaccttacaatca	221697	-	see also 16727 line
37971	CYP1A2	NM_000761.2	1366	ggccgatggcactgccttaaca	221700	-	see also 16727 line
37972	CYP1B1	NM_000104.2	1137	caccgttttcgggaattcgagc	221703	-	see also 16728 line
37973	CYP1B1	NM_000104.2	609	gcgtacggcgacgttttccaga	221701	-	see also 16728 line
37974	CYP20A1	NM_020674.2	905	cagatggtaatgggtagtagacatt	221729	-	see also 16729 line
37975	CYP20A1	NM_020674.2	908	atggtatgggtagtagacattga	221730	-	see also 16729 line
37976	CYP24A1	NM_000782.2	1785	tgcattggcgcgattagcaga	221783	-	see also 483 line
37977	CYP24A1	NM_000782.2	1260	gacaaccggttagagaagtattc	221769	-	see also 483 line
37978	CYP2A13	NM_000766.3	1400	ccctcagtcgcctaaggatato	221789	-	human cytochromes P450 -
37979	CYP2A13	NM_000766.3	1399	tcctcagtcgcctaaggatatt	221788	-	see also 37978 line
37980	CYP2A13	NM_000766.3	1401	ccctcagtcgcctaaggatattg	221790	-	see also 37978 line
37981	CYP2B6	NM_000767.4	608	tgttctaccagactttttcact	221792	-	see also 16731 line
37982	CYP2B6	NM_000767.4	625	ttcactcatcagctctgattcg	221793	-	see also 16731 line
37983	CYP2C18	NM_000772.1	1346	aaggcagcagcacaataacatc	221803	-	see also 16732 line
37984	CYP2C18	NM_000772.1	1347	agggcagcagcacaataacatcc	221804	-	see also 16732 line
37985	CYP2C19	NM_000769.1	657	tcacactatcattgattattcc	221806	-	CYP2C19*8 mephenytoin 4-hydroxylase C19 defect(メフェニ トイン4ヒドロキシラーゼ欠損症)
37986	CYP2C8	NM_000770.2	736	ctcttacacgaattacattagg	221813	-	see also 16733 line
37987	CYP2C8	NM_000770.2	1129	cagtgacactgatactagttc	221818	-	see also 16733 line
37988	CYP2C9	NM_000771.2	824	agcacaacacacatctgaattt	221826	-	see also 16734 line
37989	CYP2C9	NM_000771.2	826	cacaaccaacacatctgaattac	221827	-	see also 16734 line

38026	P450RAI-2	NM_019885.2	219	gtcgtcgcggaggagagatg	222031	-	see also 16750 line
38027	P450RAI-2	NM_019885.2	245	acgtttcaagaagcattgttg	222033	-	see also 16750 line
38028	PAMCI	NM_005447.2	433	ggcagcccaatagcaattgt	222044	-	see also 16751 line
38029	PAMCI	NM_005447.2	1349	cggacacttgatcagctctaac	222061	-	see also 16751 line
38030	TBXAS1	NM_001061.2	480	atcttgctcgtggagtttatt	222065	-	see also 651 line
38031	TBXAS1	NM_001061.2	571	ggcgtcgggtttggagttcaagt	222071	-	see also 651 line
38032	TBXAS1	NM_001061.2	957	cocgattttgcccataagaac	222084	-	see also 651 line
38033	TYRPI	NM_000550.1	1519	gccaaagtcggagtttattgtac	222130	-	see also 16753 line
38034	TYRPI	NM_000550.1	1401	atgcccctattggacataataga	222126	-	see also 16753 line
38035	FLJ13491	NM_024623.1	1353	cocgcacacgtggagatgatgc	222136	-	-
38036	FLJ13491	NM_024623.1	712	tcacgcgctggagacagatagc	222135	-	see also 38035 line
38037	PLOD	NM_000302.2	1744	ctgcccggatgtctattggttc	222148	-	see also 16754 line
38038	PLOD	NM_000302.2	1868	tacgagaacgtgcgcactatga	222149	-	see also 16754 line
38039	PLOD2	NM_000935.1	519	tccatattcaaccgtatagttc	222170	-	see also 615 line
38040	PLOD2	NM_000935.1	146	gtgatgtattccatcatttatg	222156	-	see also 615 line
38041	PLOD3	NM_001084.3	573	gacagaagtcctcggtgttaag	222227	-	see also 16756 line
38042	PLOD3	NM_001084.3	977	ctcaacgggctttagatgaagt	222236	-	see also 16756 line
38043	P4HA1	NM_000917.1	1111	atggagacaagcctcgtattatc	222283	-	see also 593 line
38044	P4HA1	NM_000917.1	1695	gaccttgatcgtttgcagaattg	222304	-	see also 593 line
38045	P4HA2	NM_004199.1	1383	atcgtcggatgcagacatcacca	222322	-	see also 16758 line
38046	P4HA2	NM_004199.1	1500	agcagatactttcaagcattta	222325	-	see also 16758 line
38047	P4HA2	NM_004199.1	927	tgcgactattgagcagttatg	222314	-	see also 16758 line
38048	P4HB	NM_000918.2	1391	tgcgcacagagcggctcattgatt	222335	-	see also 16759 line
38049	P4HB	NM_000918.2	1251	ttgctctccatttgggataaact	222333	-	see also 16759 line
38050	LOC57168	NM_020437.3	1240	atcccatcgcagctccatttagg	222348	-	see also 16760 line
38051	LOC57168	NM_020437.3	1243	cgcctccatgcatttagttot	222349	-	see also 16760 line
38052	LOC57168	NM_020437.3	1389	tggccacaggggtgttttcattg	222350	-	see also 16760 line
38053	BBOX1	NM_003986.1	294	cacatggcccgatgagcattaca	222362	-	see also 2723 line
38054	BBOX1	NM_003986.1	944	acgcacactagggacacacattt	222385	-	see also 2723 line
38055	EGLN1	NM_022051.1	4015	ctggcagctacacaaatcaatgg	222390	-	see also 16762 line
38056	EGLN2	NM_017655.1	2519	tacgtaaggcacgtgacaatcc	222394	-	signal transduction -
38057	EGLN3	NM_022073.2	926	cctcttaacgcaaccagatagc	222402	-	see also 16763 line
38058	EGLN3	NM_022073.2	646	ggcccggtctgggcaaatctacg	222397	-	see also 16763 line
38059	FLJ10826	NM_018233.1	1192	acgggtcactacactttaattca	222418	-	see also 16764 line
38060	FLJ10826	NM_018233.1	1191	gaccggtcactacactttaattc	222417	-	see also 16764 line
38061	FLJ22222	NM_024648.1	865	ggcggagggcgggttcatttcattg	222429	-	see also 16765 line
38062	FLJ22222	NM_024648.1	863	cggcggaggggggttcatttcattca	222428	-	see also 16765 line
38063	LEPRE1	NM_022356.2	936	ttcctccatcgcattataatta	222441	-	see also 8344 line
38064	LEPRE1	NM_022356.2	1704	ctggatagcccccctctacttttc	222451	-	see also 8344 line
38065	LEPRE2	NM_014262.2	753	cogtggagagccctcaactacc	222465	-	see also 16767 line
38066	LEPRE2	NM_014262.2	752	ggcgtcggagggccctcaactaac	222464	-	see also 16767 line
38067	MLAT4	NM_018192.2	1776	ggcgctcgtcgtctttttgaca	222504	-	see also 7311 line
38068	MLAT4	NM_018192.2	1996	tacacattcggagactatagtc	222510	-	see also 7311 line
38069	MLAT4	NM_018192.2	1377	cactgaaccgaattttagatca	222492	-	see also 7311 line

図 46 (続き)

1043

38070	PTGS1	NM_000962.2	565	gtgagctattacactcgtattct	222526	-	see also 16769 line
38071	PTGS1	NM_000962.2	838	gacaatctggagcgtcagtatca	222531	-	see also 16769 line
38072	PTGS2	NM_000963.1	1885	cccgctcggactatgatgatc	222592	-	see also 16770 line
38073	PTGS2	NM_000963.1	1883	ttcccgctcggactatgatgata	222590	-	see also 16770 line
38074	PTGS2	NM_000963.1	1884	ttcccgctcggactatgatgat	222591	-	see also 16770 line
38075	HMOX1	NM_002133.1	407	agccatgcagcgtatgtgaagc	222596	-	see also 16771 line
38076	HMOX1	NM_002133.1	692	gactcgtctcgtcgaacatcc	222599	-	see also 16771 line
38077	HMOX2	NM_002134.2	297	cacggcacttaattcacatact	222605	-	see also 16772 line
38078	HMOX2	NM_002134.2	290	tggccacacgcacttaattctt	222604	-	see also 16772 line
38079	DAPI3	NM_018838.3	107	ggcggctcgcggactatctacg	222609	-	see also 16773 line
38080	DAPI3	NM_018838.3	151	tgcgaaggttggtacattatgg	222612	-	see also 16773 line
38081	DAPI3	NM_018838.3	230	cacgatgggttatatactac	222615	-	see also 16773 line
38082	GRIM19	NM_015965.3	324	cgcggatcgatgttacactact	222634	-	see also 16774 line
38083	GRIM19	NM_015965.3	628	gcgcaggcgcctacaaaatcgagg	222638	-	see also 16774 line
38084	NDUFA11	NM_175614.1	64	gcctacagcaccacagattgc	222641	-	see also 16775 line
38085	NDUFA11	NM_175614.1	394	ggctggagggtgtttgcaaac	222643	-	see also 16775 line
38086	NDUFA2	NM_002488.2	216	atcccgactaccatcctaactc	222646	-	see also 16776 line
38087	NDUFA2	NM_002488.2	125	ggagattgcaccacttaigtca	222645	-	see also 16776 line
						NADH dehydrogenase (ubiquinone)	-
38088	NDUFA3	NM_004542.1	126	ccccattgagccctacttcaag	222650	-	-
38089	NDUFA6	NM_002490.2	14	ggcgtccgcgaagctactctac	222651	-	see also 1592 line
38090	NDUFA6	NM_002490.2	334	agcgccaaagccaaaggatttc	222660	-	see also 1592 line
38091	NDUFA7	NM_005001.1	169	agctctcaacaattactattgc	222663	-	see also 16778 line
38092	NDUFA7	NM_005001.1	162	agccacaagctctccaaacatta	222661	-	see also 16778 line
38093	NDUFA8	NM_014222.2	552	taccggagaatccctactactca	222668	-	see also 16779 line
38094	NDUFA8	NM_014222.2	630	atggcagccgctttttattctgg	222669	-	see also 16779 line
38095	NDUFA9	NM_005002.3	352	ttctatccagcagtagtagacaac	222681	-	see also 16780 line
38096	NDUFA9	NM_005002.3	888	tgcgccttttgcctatcgatgg	222694	-	see also 16780 line
38097	NDUFB1	NM_004545.3	281	tgccttcgggaacaagatgtgt	222704	-	see also 16781 line
38098	NDUFB1	NM_004545.3	222	gtccctatggagatttgcattgg	222702	-	see also 16781 line
38099	NDUFB10	NM_004548.1	222	accctcgtggagagaatttataga	222708	-	see also 16782 line
38100	NDUFB10	NM_004548.1	221	gacctcgtggagagaatttatag	222707	-	see also 16782 line
						NADH dehydrogenase (ubiquinone)	-
38101	NDUFB3	NM_002491.1	296	aacttcagattatagacaatgg	222712	-	-
38102	NDUFB5	NM_002492.2	383	aagatggattgccgaatttct	222720	-	see also 16783 line
38103	NDUFB5	NM_002492.2	386	atggattgccgaatttctatg	222721	-	see also 16783 line
38104	NDUFB6	NM_002493.3	131	gggtacactccggaatgagaact	222737	-	see also 16784 line
38105	NDUFB6	NM_002493.3	302	atggtcatggggtatatacaaaa	222738	-	see also 16784 line
38106	NDUFB8	NM_005004.1	342	ggcaactagacatgtacaacagg	222742	-	see also 16786 line
38107	NDUFB9	NM_005005.1	344	acctctatgagagatacagattg	222748	-	see also 16787 line
38108	NDUFB9	NM_005005.1	169	gtgcgtcagagagacaaatacc	222743	-	see also 16787 line
38109	NDUFC1	NM_002494.2	70	ggccttcagtcgcatcaagttc	222752	-	see also 16788 line

図46 (続き)

1044

38110	NDUFC1	NM_002494.2	74	ttcagtcgcatcaaaagtcttacg	222754	-	see also 16788 line
38111	NDUFC2	NM_004549.3	311	tgcacgcacgctctcttatatt	222762	-	see also 16789 line
38112	NDUFC2	NM_004549.3	314	atgcgcacgctctcttatattacg	222763	-	see also 16789 line
38113	NDUFS1	NM_005006.5	892	tgcgggttggaagtataattgagg	222767	-	see also 3499 line
38114	NDUFS1	NM_005006.5	1004	gcctatgatgggctcaaacgctca	222789	-	see also 3499 line
38115	NDUFS1	NM_005006.5	1033	tacagagccaatgctcagaagaatg	222793	-	see also 3499 line
38116	NDUFS2	NM_004550.3	851	tactttgacggctagactagt	222847	-	see also 16791 line
38117	NDUFS2	NM_004550.3	1702	cccttatcgctcaagatcaagg	222869	-	see also 16791 line
38118	NDUFS3	NM_004551.1	374	ctcggcaaaacggtttgagatt	222879	-	see also 16792 line
38119	NDUFS3	NM_004551.1	626	ctggctatgttgagttacgttat	222886	-	see also 16792 line
38120	NDUFS4	NM_002495.1	356	aacgctgatcccttatcaaca	222895	-	see also 1594 line
38121	NDUFS4	NM_002495.1	371	atccaacatggttctaacttca	222896	-	see also 1594 line
38122	NDUFS6	NM_004553.2	306	ggccaccacaagtgatatataa	222905	-	see also 16794 line
38123	NDUFS6	NM_004553.2	144	cacactgcccaggtttatgata	222901	-	see also 16794 line
38124	NDUFS6	NM_004553.2	310	accataaagtgtatataaacttg	222907	-	see also 16794 line
38125	NDUFS8	NM_002496.1	408	tccggggagagcggcttgcatg	222913	-	see also 16795 line
38126	NDUFS8	NM_002496.1	194	cacctacaagtatgtaacatgc	222911	-	see also 16795 line
38127	NDUFS8	NM_002496.1	194	cacctacaagtatgtaacatgc	222921	-	see also 4951 line
38128	NDUFS1	NM_007103.2	1172	cgcgcctcattgagttctataag	222923	-	see also 4951 line
38129	NDUFS1	NM_007103.2	1321	cagatagaagccatcagatttg	222926	-	see also 16797 line
38130	NDUFS2	NM_021074.1	310	atgaacaaggttgcagaagtttt	222932	-	see also 16797 line
38131	PI7.3	NM_019056.2	544	ttcaataaataacataactat	222937	-	-
38132	PI7.3	NM_019056.2	543	accgcaggacgaaacttgat	222936	-	see also 38131 line
38133	PI7.3	NM_019056.2	545	cccgaggagcaaaaacttgatga	222938	-	see also 38131 line
38134	NQ01	NM_000903.1	431	cacttaagctgcctatgataca	222953	-	see also 16798 line
38135	NQ01	NM_000903.1	234	gacccctgcgaacttcagtatcc	222944	-	see also 16798 line
38136	NQ02	NM_000904.1	641	tacacgaagacagagagtcactg	222972	-	see also 16799 line
38137	NQ02	NM_000904.1	453	ggggaggctgacccagtgatatt	222968	-	see also 16799 line
38138	CYB561	NM_001915.2	454	tggctcgggactcctgtcttct	222974	-	see also 16800 line
38139	CYB561	NM_001915.2	725	ggggcggctgctctacatctgacc	222977	-	see also 16800 line
38140	CYB5R2	NM_016229.1	510	aggggacgctgtttttaccatgg	222991	-	see also 16801 line
38141	CYB5R2	NM_016229.1	588	ggcgcacaccctgggaatgatgc	222995	-	see also 16801 line
38142	CYB5R2	NM_016229.1	559	accagacagtgagcctcaaaaa	222992	-	see also 16801 line
38143	DIA1	NM_000398.3	295	tacctctcggctcgaattgatgg	222999	-	see also 16802 line
38144	DIA1	NM_000398.3	292	atctactctcggctcgaattgatga	222998	-	see also 16802 line
38145	DIA1	NM_000398.3	300	ctcggctcgaattgatgaaacc	223000	-	see also 16802 line
38146	NQ05OR	NM_016230.2	208	tggattcgcactgaccaaagtg	223006	-	see also 16803 line
38147	NQ05OR	NM_016230.2	584	aagaaggtcctagttatccaagc	223020	-	see also 16803 line
38148	NNT	NM_012343.2	663	atcaggaaacgtgattgattta	223066	-	see also 5302 line
38149	NNT	NM_012343.2	2445	ggcctactcggcacttacattg	223113	-	see also 5302 line
38150	DHDH	NM_014475.2	646	gtcgtgggaagcgcgtcgaaac	223155	-	see also 16805 line
38151	DHDH	NM_014475.2	892	aacggggcagcgcagtcagattga	223157	-	see also 16805 line
38152	POR	NM_000941.1	1989	cgcgcagcgcgtgagactacatca	223169	-	see also 16806 line
38153	POR	NM_000941.1	173	aagtcgccgaggttcacccaaatt	223163	-	see also 16806 line

図46 (続き)

1045

38154	TXNRD2	NM_006440.2	1589	gccccaaacgagcggaagtact	223186	-	see also 16807 line
38155	TXNRD2	NM_006440.2	1591	cccaacgagcggaagtactca	223187	-	see also 16807 line
38156	PRDX3	NM_006793.2	788	gagtactttcagaaggtaaatca	223196	-	see also 16808 line
38157	PRDX3	NM_006793.2	771	gtccagctgtccaaagagtagc	223194	-	see also 16808 line
38158	GMPR	NM_006877.2	212	aacgcaccttcagtttcgaat	223199	-	see also 16809 line
38159	GMPR	NM_006877.2	707	agctgagtgccgttcattgagt	223208	-	see also 16809 line
38160	GMPR	NM_006877.2	217	accttcacgtttcgaattcaaaa	223200	-	see also 16809 line
38161	GMPR2	NM_016576.2	883	gtgtgtactactcgggaagaaac	223216	-	see also 6920 line
38162	GMPR2	NM_016576.2	1338	caccocagcaggtgaattccaatct	223217	-	see also 6920 line
38163	GMPR2	NM_016576.2	1343	agcagggtgaatccaattctcagt	223218	-	see also 6920 line
38164	NOX1	NM_007052.3	465	agccgcacactgagaaagcaatt	223222	-	see also 4939 line
38165	NOX1	NM_007052.3	530	ctgcctacatacagctattcaca	223226	-	see also 4939 line
38166	AASS	NM_005763.2	953	aacatccggagcgctacataagt	223306	-	see also 4023 line
38167	AASS	NM_005763.2	1450	aacgtgtacattacctgataata	223330	-	see also 4023 line
38168	AASS	NM_005763.2	1384	gacgcagacacagcctctgaaag	223323	-	see also 4023 line
38169	CAT	NM_001752.1	1024	accggaatccagtttaattcttt	223400	-	see also 16813 line
38170	CAT	NM_001752.1	1388	tactcaggtctcggggcattctatg	223415	-	see also 16813 line
38171	CAT	NM_001752.1	1579	agcctaagaatgcgattcacacc	223416	-	see also 16813 line
38172	EPX	NM_000502.1	1516	agctggcggtatcgtatgaagg	223431	-	see also 16814 line
38173	EPX	NM_000502.1	319	caggcgctcggagcccttcaatgt	223420	-	see also 16814 line
38174	FLJ20473	NM_017836.2	1272	aggctgatccaggtgacaaatcc	223460	-	see also 16815 line
38175	FLJ20473	NM_017836.2	964	tacaaaggcatgctgcatattac	223451	-	see also 16815 line
38176	FLJ25471	NM_144651.1	1419	cacgtttgcagcggaaattcagg	223487	-	see also 16816 line
38177	FLJ25471	NM_144651.1	1417	agcacgtttgcagcggaaattca	223486	-	see also 16816 line
38178	GPR156	NM_153002.1	1616	cacgggttaggtcagtaatacagg	223519	-	see also 16817 line
38179	GPR156	NM_153002.1	1612	cggtaacaggttagttagtaaat	223517	-	see also 16817 line
38180	GPX2	NM_002083.2	631	atcaagcgctcctctaaagtgc	223532	-	see also 16818 line
38181	GPX2	NM_002083.2	94	ttcattgccaagtctctctatga	223527	-	see also 16818 line
38182	GPX2	NM_002083.2	490	accgatcccaagctcatcattg	223530	-	see also 16818 line
38183	GPX3	NM_002084.2	568	accattcggtctggtctctctgg	223539	-	see also 16819 line
38184	GPX3	NM_002084.2	904	cacggctcagcaacgtcaagatgg	223541	-	see also 16819 line
38185	GPX4	NM_002085.1	298	gaggcaagacccgaagtaaacatc	223544	-	see also 16820 line
38186	GPX4	NM_002085.1	443	gggctacaacgtcaaatcgcata	223547	-	see also 16820 line
38187	GPX5	NM_001509.1	489	ttgggcacattcaaatctatata	223558	-	see also 16821 line
38188	GPX5	NM_001509.1	638	ggcgtacttgaagcaattcaaaa	223561	-	see also 16821 line
38189	GPX6	NM_015696.2	369	ctcattcccatcttttagcaaga	223564	-	see also 16822 line
38190	GPX6	NM_015696.2	373	ttcccatgtttgaagatttgc	223565	-	see also 16822 line
38191	HCCA3	NM_020232.3	453	ctccttcgggtaccattctaca	223578	-	see also 16823 line
38192	HCCA3	NM_020232.3	455	cccttcgggtaccattctacacc	223579	-	see also 16823 line
38193	HCCA3	NM_020232.3	691	tgcattaggtctgttgagtac	223585	-	see also 16823 line
38194	MMS19L	NM_022362.2	2595	tgcgaagtcgagatcatgttcc	223627	-	see also 16824 line
38195	MMS19L	NM_022362.2	2620	cagcggtttcttcacagataatgt	223629	-	see also 16824 line
38196	PI16	NM_153370.1	1039	aacggggattccggctttcttgg	223637	-	see also 9994 line
38197	PI16	NM_153370.1	1112	accagggcccaactctcttagc	223639	-	see also 9994 line

図 46 (続き)

1046

38198	PRDX1	NM_002574.2	588	gtcatctagcatgggtcaataca	223646	-	see also 16825 line
38199	PRDX1	NM_002574.2	635	cccatgaacattcttctgtggtc	223650	-	see also 16825 line
38200	PRDX4	NM_006406.1	476	gtgtgtgcatctctctgttgatc	223679	-	see also 4493 line
38201	PRDX4	NM_006406.1	271	aagcgaagcgaagattccaagc	223668	-	see also 4493 line
38202	RTDR1	NM_014433.2	788	cgcccgctgcctctcttaattgca	223694	-	see also 16828 line
38203	RTDR1	NM_014433.2	790	cccgctgcctctcttaattgctcgc	223695	-	see also 16828 line
38204	TPRA40	NM_016372.1	607	acctggaacgctgcaactgttc	223701	-	see also 16829 line
38205	TPRA40	NM_016372.1	344	caccctctggcaccacaacatcagt	223700	-	see also 16829 line
38206	ACADL	NM_001608.1	1094	cactgcttgcatggcgaaatatt	223738	-	see also 16830 line
38207	ACADL	NM_001608.1	1063	agctgcatgaagcgaaacgttg	223737	-	see also 16830 line
38208	ACADVL	NM_000018.1	276	aaccggccaaaggcggaatctaag	223751	-	see also 16831 line
38209	ACADVL	NM_000018.1	277	accggccaagcggaatctaagt	223752	-	see also 16831 line
38210	GCDH	NM_000159.1	290	tggccaatcgcaacgaagttttt	223768	-	see also 16832 line
38211	GCDH	NM_000159.1	681	ctgcctatggccgagctctgttg	223772	-	see also 16832 line
38212	GCDH	NM_000159.1	475	ctcgtcatggccctctatctgc	223771	-	see also 16832 line
38213	ACADS	NM_000017.1	299	cggctgctggcctcgattacctgg	223780	-	see also 16833 line
38214	ACADS	NM_000017.1	233	agcggctcgaagtgaagaagatgg	223778	-	see also 16833 line
38215	IVD	NM_002225.2	443	cccggtgacgatgcaatcaatgg	223786	-	see also 16834 line
38216	IVD	NM_002225.2	1345	ggcgtgctggcagtgatgtctaca	223800	-	see also 16834 line
38217	ACAD8	NM_014384.1	341	ggcttctggagggtctacataca	223807	-	see also 5644 line
38218	ACAD8	NM_014384.1	258	cccgagagatggctccaatatg	223804	-	see also 5644 line
38219	ACAD9	NM_014049.3	1135	ggcttaogtctggagagatga	223842	-	see also 16836 line
38220	ACAD9	NM_014049.3	320	gaggtggactcccgaaaaattga	223827	-	see also 16836 line
38221	ACADM	NM_000016.2	1229	tggctgctgaaatacctatfatg	223880	-	see also 16837 line
38222	ACADM	NM_000016.2	1226	tctgtgctgaaatacctatt	223878	-	see also 16837 line
38223	ACADSB	NM_001609.2	790	acctgcocgttaacattcgaaaa	223908	-	see also 16838 line
38224	ACADSB	NM_001609.2	792	ctgcccgttaacattcgaaaa	223909	-	see also 16838 line
38225	SRD5A1	NM_001047.1	570	atccocgtttctaataggtttt	223933	-	see also 16839 line
38226	SRD5A1	NM_001047.1	410	tacgggcatggtgcttaattta	223928	-	see also 16839 line
38227	SRD5A1	NM_001047.1	499	tactgttaocgggctatttgcaaa	223930	-	see also 16839 line
38228	SRD5A2	NM_000348.2	494	cacagacatacgggttagcttgg	223954	-	see also 290 line
38229	SRD5A2	NM_000348.2	652	tcctcgatagatcatggaatgg	223960	-	see also 290 line
38230	DHODH	NM_001361.1	311	agccttggacgggaacttataaga	223971	-	see also 924 line
38231	DHODH	NM_001361.1	927	ctccgggtttatcaactcaaac	223981	-	see also 924 line
38232	DPYD	NM_000110.2	869	tgcgggttaaaagcctttcagtga	224010	-	see also 93 line
38233	DPYD	NM_000110.2	1276	ccccacgaagagttatagtaaaa	224024	-	see also 93 line
38234	SDHC	NM_003001.2	187	cccaattactatctacagtgg	224078	-	see also 16843 line
38235	SDHC	NM_003001.2	178	ctctgtctccacattactatc	224075	-	see also 16843 line
38236	SDHC	NM_003001.2	182	gtctcccaattactatctaca	224076	-	see also 16843 line
38237	ACOX1	NM_004035.4	1321	gacctatacccggtattaaacgaag	224102	-	see also 16844 line
38238	ACOX1	NM_004035.4	1322	acctatacccggtattaaacgaag	224103	-	see also 16844 line
38239	ACOX1	NM_004035.4	881	gccttatcgtaacctattcgta	224095	-	see also 16844 line
38240	ACOX2	NM_003500.1	525	atccagatcatcgcaacgtatgc	224137	-	see also 2359 line
38241	ACOX2	NM_003500.1	262	tccacagttaccggaggttagc	224133	-	see also 2359 line

図 46 (続き)

1047

38242	ACOX3	NM_003501.1	797	atgttggcgacataggaaaaa	224162	-	see also 16846 line
38243	ACOX3	NM_003501.1	1129	atggcggtgttccatcttg	224169	-	see also 16846 line
38244	CPO	NM_000097.3	1222	aaggagacggtagtagaattta	224194	-	see also 16847 line
38245	CPO	NM_000097.3	1219	cagaagagacggtagtagaat	224193	-	see also 16847 line
38246	FLJ11164	NM_018346.1	898	ggcgctcagtaaccacaattgg	224206	-	see also 16848 line
38247	FLJ11164	NM_018346.1	901	cgcctagtaaccacaattggact	224207	-	see also 16848 line
38248	PPOX	NM_000309.1	1528	ctgcattccacgtatcacatag	224226	-	see also 16849 line
38249	PPOX	NM_000309.1	1107	tggaggctgaccacgtattagt	224220	-	see also 16849 line
38250	BLVR	NM_000712.3	658	agcgaagaagacagcatatag	224234	-	see also 16850 line
38251	BLVR	NM_000712.3	283	aggtagaggtcgcttatatgc	224231	-	see also 16850 line
38252	BLVR	NM_000713.1	254	cacgttgtagtgggagatgtct	224248	-	see also 16851 line
38253	DEGR1	NM_001359.1	661	ttcgtgacactagaattggaaa	224268	-	see also 923 line
38254	DEGR1	NM_001359.1	289	gcgatgctaccaccttaattgtt	224256	-	see also 923 line
38255	SDHA	NM_004168.1	609	gactggccactcgcctattgcaca	224286	-	succinate dehydrogenase (ubiquinone)
38256	SDHB	NM_003000.1	553	ttccgatttgagcaactcttat	224298	-	see also 16853 line
38257	SDHB	NM_003000.1	554	ttccgatttgagcaactcttat	224299	-	see also 16853 line
38258	FADS1	NM_013402.3	1245	ccacagctgcctgacacaattta	224309	-	see also 16854 line
38259	FADS1	NM_013402.3	909	ctctactccagtggttatgttt	224305	-	see also 16854 line
38260	SC5DL	NM_006918.2	130	ttccgacaagctattagctctt	224318	-	see also 16855 line
38261	SC5DL	NM_006918.2	266	tcctgtagagatttaatttact	224326	-	see also 16855 line
38262	TDO2	NM_005651.1	530	ttgcaattccgactattagaaaa	224364	-	see also 3920 line
38263	TDO2	NM_005651.1	1116	tgcgtacactgtgagtgatagg	224380	-	see also 3920 line
38264	HPD	NM_002150.2	286	ggcgagatcaactggtagaacacg	224387	-	see also 16857 line
38265	HPD	NM_002150.2	914	ccctccagctactacaacaact	224397	-	see also 16857 line
38266	INDO	NM_002164.3	686	aagaaacgggacacactttgctaaag	224409	-	see also 16858 line
38267	INDO	NM_002164.3	843	atcagaaggtctggtagtagaag	224414	-	see also 16858 line
38268	HGD	NM_000187.1	889	gtggttacacggctcattataaa	224447	-	see also 16859 line
38269	HGD	NM_000187.1	319	gtccacggagaccaccaataagaga	224430	-	see also 16859 line
38270	CD01	NM_001801.1	665	tggcttacatagagtagagaaca	224463	-	see also 16860 line
38271	CD01	NM_001801.1	644	tgcctacatcaatgattccattg	224462	-	see also 16860 line
38272	HAO	NM_012205.1	266	gtcattcgscaggagagagatatt	224467	-	quinolinate synthetase A
38273	BCDO1	NM_017429.1	1431	gagcttcacagggatcaattatgc	224492	-	see also 7003 line
38274	BCDO1	NM_017429.1	1429	tagagcttcacagggatcaattat	224491	-	see also 7003 line
38275	BCDO2	NM_031938.1	211	ggctctctcttcgaatttgacc	224512	-	see also 9058 line
38276	BCDO2	NM_031938.1	1149	aggcttgatcatcagggtccataatt	224551	-	see also 9058 line
38277	FLJ32115	NM_152321.1	335	ctcttcgctgttagacaatga	224568	-	see also 16863 line
38278	FLJ32115	NM_152321.1	236	ctccatgcatggtgcaaaaatt	224566	-	see also 16863 line
38279	TMLHE	NM_018196.1	344	tacactgtagctttagattacg	224584	-	see also 7312 line
38280	TMLHE	NM_018196.1	950	gacactgtagtagattgattct	224597	-	see also 7312 line
38281	ALDR16	NM_017584.4	285	gtcggaccgccagcagatttcc	224605	-	see also 16865 line
38282	ALDR16	NM_017584.4	544	agcacagagctcgggattatca	224607	-	see also 16865 line

図46 (続き)

1048

38283	ALDL6	NM_017584.4	546	cacagagctcgggagtatcagc	224608	-	see also 16865 line	protein disulfide isomerase	-
38284	G12orf8	NM_006817.2	730	agctcagaagagcttaaacatc	224613	-	-	-	-
38285	ERP70	NM_004911.3	1921	agctagaccggtgtatacaacagc	224643	-	see also 16866 line	-	-
38286	ERP70	NM_004911.3	320	ccggacgaggatcttctaaca	224615	-	see also 16866 line	-	-
38287	ERP70	NM_004911.3	324	gacgaggatcttctaacaagaga	224617	-	see also 16866 line	-	-
38288	P5	NM_005742.2	823	gcctcccatcacgggattagagg	224668	-	see also 16867 line	-	-
38289	P5	NM_005742.2	220	atcgaattaactccatcgaattt	224649	-	see also 16867 line	-	-
38290	PDIP	NM_006849.1	992	tgcgttgggtcaaccttgaaacc	224679	-	see also 16868 line	-	-
38291	PDIP	NM_006849.1	1139	gggatcagcggccaggttaagacc	224681	-	see also 16868 line	-	-
38292	PDIP	NM_006810.1	185	cagaaccgggaataatgtactgg	224690	-	see also 4785 line	-	-
38293	PDIP	NM_006810.1	569	gcccctcctgatactgttttatg	224702	-	see also 4785 line	-	-
38294	TXN	NM_003329.1	109	gacgtgcaggtgataaactgtt	224718	-	see also 16870 line	-	-
38295	TXN	NM_003329.1	188	ttcattccctctctgaaaggtat	224720	-	see also 16870 line	-	-
38296	TXN2	NM_012473.3	440	cacagacctgcattgagtagtg	224725	-	see also 16871 line	-	-
38297	TXN2	NM_012473.3	411	gtgatggccaaggttgatattga	224723	-	see also 16871 line	-	-
38298	TXNL	NM_004786.1	889	tggcattgtccactctgttatg	224747	-	see also 3300 line	-	-
38299	AMID	NM_032797.4	1220	gacggtgtggcccaaatcagtagg	224763	-	see also 9285 line	-	-
38300	AMID	NM_032797.4	869	gagtatcgagagtagatcaaaagt	224762	-	see also 9285 line	-	-
38301	FLJ20228	NM_024854.1	483	atcatagggcaaggtgtgtattgc	224778	-	see also 16874 line	-	-
38302	FLJ20228	NM_024854.1	260	ttcccaacattaggattagaaat	224770	-	see also 16874 line	-	-
38303	FLJ23322	NM_024955.4	2131	ggctcagtcctcgtgatagcaaca	224814	-	see also 16875 line	-	-
38304	FLJ23322	NM_024955.4	1883	accgatttgcgaagcttctatgc	224812	-	see also 16875 line	-	-
38305	FLJ30473	NM_144704.1	509	cacgcccctggccataagtgctc	224817	-	see also 16876 line	-	-
38306	FLJ30473	NM_144704.1	1030	aactaagaaggtcgtgttcaagg	224818	-	see also 16876 line	-	-
38307	MT01	NM_012123.1	810	agcatataccaggacaatccatcc	224838	-	see also 16877 line	-	-
38308	MT01	NM_012123.1	1425	gtgaaccatataccgcatgtttacc	224859	-	see also 16877 line	-	-
38309	PDCD8	NM_004208.2	1600	gcccgtactggcctcagtcgaatgt	224937	-	see also 2816 line	-	-
38310	PDCD8	NM_004208.2	1781	gagtcaggagcctcagaataaac	224940	-	see also 2816 line	-	-
38311	SQRDL	NM_021199.1	484	ctcctacogatatcttattatg	224961	-	see also 16879 line	-	-
38312	SQRDL	NM_021199.1	1223	accgctacaaccggtgtgattct	224988	-	see also 16879 line	-	-
38313	ALDH1A2	NM_003888.2	1234	ggcccgaaagggtttttttcattg	225025	-	see also 16880 line	-	-
38314	ALDH1A2	NM_003888.2	1233	tgggcccgaagggtttttttcatt	225024	-	see also 16880 line	-	-
38315	ALDH2	NM_000690.2	868	ctcaaatgtctcgggtattatgc	225039	-	see also 16881 line	-	-
38316	ALDH2	NM_000690.2	1613	ctgtgtaccgtgtgttactcatc	225050	-	see also 16881 line	-	-
38317	ALDH3A2	NM_000382.1	1276	atgtattttccataaccataaag	225081	-	see also 16882 line	-	-
38318	ALDH3A2	NM_000382.1	916	tgtcacccgactattctctgt	225073	-	see also 16882 line	-	-
38319	ALDH4A1	NM_003748.2	554	atcgacttctccggttcaatgc	225095	-	see also 16883 line	-	-
38320	ALDH4A1	NM_003748.2	563	ttcgggttcaatgccaaagtatgc	225096	-	see also 16883 line	-	-
38321	ALDH7A1	NM_001182.1	963	cactgcagggcgactgtttatcac	225108	-	see also 16884 line	-	-
38322	ALDH7A1	NM_001182.1	966	tgcgagggcgactgtttatcacatg	225109	-	see also 16884 line	-	-
38323	ALDH9A1	NM_000696.2	1786	gcccgtgtgaacaatcgaatttat	225193	-	see also 16885 line	-	-
38324	ALDH9A1	NM_000696.2	1782	aacggccgtgtgacaatcgaata	225189	-	see also 16885 line	-	-
38325	ALDH1A3	NM_000693.1	1289	ttcggggcaggtgcaaccatcact	225217	-	see also 16886 line	-	-

図 46 (続き)

1049

38326	ALDH1A3	NM_000893.1	856	tgcgtccggagcaaatgtgaagc	225206	-	see also 16886 line		
38327	ALDH3A1	NM_000691.3	804	ctcgatccagaacaaatgtgtg	225233	-	see also 16887 line		
38328	ALDH3A1	NM_000691.3	187	gcccagaccctgcacagaatga	225226	-	see also 16887 line		
38329	ALDH3B1	NM_000694.1	454	tgtctgaagccatcggagattagc	225239	-	-	aldehyde dehydrogenase (NAD(P)+)	-
38330	ALDH3B1	NM_000694.1	375	atcatctgcgccttgaactatcc	225238	-	see also 38329 line		
38331	ALDH3B2	NM_000695.2	1329	atgaggcttccactacatatct	225243	-	see also 16888 line		
38332	ALDH3B2	NM_000695.2	567	tgtgtgaagccgtcgaataatg	225242	-	see also 16888 line		
38333	GAPDS	NM_014364.3	1215	ttcatggtacgacacgaatatg	225253	-	see also 16889 line		
38334	GAPDS	NM_014364.3	651	ctcaccggtatgcacaaatgttg	225248	-	see also 16889 line		
38335	ALDH5A1	NM_001080.3	1359	caccagttatcaagttgatatac	225290	-	see also 16890 line		
38336	ALDH5A1	NM_001080.3	1499	ggcgctcaacgaaggattatttc	225294	-	see also 16890 line		
38337	ALDH6A1	NM_005589.2	415	ctccgctatacaacaactttaa	225308	-	see also 3880 line		
38338	ALDH6A1	NM_005589.2	413	tgtccgctatacaacaacttatt	225307	-	see also 3880 line		
38339	PDHA1	NM_000284.1	175	ctgtatgacatccgttaatttgc	225340	-	see also 16892 line		
38340	PDHA1	NM_000284.1	1213	tccagcgaccacactttgaagt	225352	-	see also 16892 line		
38341	PDHA1	NM_000284.1	179	tagcatccgttaattttgcaaat	225341	-	see also 16892 line		
38342	PDHA2	NM_005390.3	903	ctgcacaactacccgttatcatg	225376	-	see also 16893 line		
38343	PDHA2	NM_005390.3	227	ggcagaggggcttaataactaca	225360	-	see also 16893 line		
38344	PDHB	NM_000925.1	947	tgggaaggtctcgtggttcaattc	225403	-	see also 602 line		
38345	PDHB	NM_000925.1	811	gtgataaatatcggtaccattag	225401	-	see also 602 line		
38346	BCKDHA	NM_000709.2	911	gtcaatccggtgagtggtgaatg	225422	-	see also 434 line		
38347	BCKDHA	NM_000709.2	200	ctcggcggaggttatagataagt	225412	-	see also 434 line		
38348	BCKDHB	NM_000056.2	1098	ttgaacctagaggtcctctatato	225457	-	see also 16896 line		
38349	BCKDHB	NM_000056.2	372	ggcttggagacacaaataggaaa	225437	-	see also 16896 line		
38350	OGDH	NM_002541.1	2606	tccggaagccgttaattatcttc	225493	-	see also 1637 line		
38351	OGDH	NM_002541.1	2766	ctgcacacggcaaatgtattatg	225496	-	see also 1637 line		
38352	DHTKD1	NM_018706.4	982	ctgcacacggcggcgattactct	225516	-	see also 16897 line		
38353	DHTKD1	NM_018706.4	1644	ctcgacctctcgtcgggtttgtg	225529	-	see also 16897 line		
38354	DHTKD1	NM_018706.4	984	cgcgaagacgggattactctoc	225517	-	see also 16897 line		
38355	FLJ10851	NM_018245.1	2756	cacgggaaggtgtactatgacc	225580	-	see also 16898 line		
38356	FLJ10851	NM_018245.1	609	ctgcgcgaacacacactcattgg	225554	-	see also 16898 line		
38357	COX11	NM_004375.2	68	tggatggagctcggtctcttct	225584	-	see also 16899 line		
38358	COX15	NM_004376.3	1172	ctgctgctttggcgatacaca	225599	-	see also 16900 line		
38359	COX15	NM_004376.3	629	ggcatgaaggacgtgttttgc	225591	-	see also 16900 line		
38360	COX411	NM_001861.2	547	ccctccccaagcttttgcacaa	225604	-	-	cbb3-type cytochrome c oxidase	-
38361	COX411	NM_001861.2	635	ctccaagtggagctacgaaaga	225605	-	see also 38360 line		
38362	COX411	NM_001861.2	244	tgtgaagcgggaagacttttgc	225603	-	see also 38360 line		
38363	COX412	NM_032609.2	438	gtggcagcgggtctacgtatttc	225607	-	see also 16901 line		
38364	COX412	NM_032609.2	439	tggcagcgggtctacgtatttc	225608	-	see also 16901 line		
38365	COX5A	NM_004255.2	178	ctcgctgggttaactacttcaac	225614	-	see also 16902 line		

図 46 (続き)

1050

38366	Cox5A	NM_004255.2	175	atgtctcgtgggttaacatacttct	225612	-	see also 16902 line
38367	Cox5B	NM_001862.2	370	cccgctgtggagccattacaag	225634	-	see also 16903 line
38368	Cox5B	NM_001862.2	276	atctccaagaagaatagtagg	225633	-	see also 16903 line
38369	Cox5B	NM_001862.2	245	caccagggaagaccctaatttag	225631	-	see also 16903 line
38370	Cox6B	NM_001863.3	286	aaggccaatagccgctaagagg	225635	-	see also 16904 line
38371	Cox6C	NM_004374.2	106	gccaggcgtctgcgaatcatat	225637	-	see also 16905 line
38372	Cox6C	NM_004374.2	172	aagtttcgtgctgctgataaag	225639	-	see also 16905 line
38373	Cox7A1	NM_001864.2	533	accgagtgccggagaaacagaag	225644	-	-
38374	Cox7A2L	NM_004718.2	194	tccgattccacagtgatgatta	225649	-	electron
38375	Cox7A2L	NM_004718.2	193	ctccgattccacagtgatgatt	225648	-	see also 16906 line
38376	Cox7A3	NM_183003.1	264	agcaatcacttggttcacattca	225656	-	see also 16907 line
38377	Cox7B	NM_001866.2	103	gtcaaaaagccactaaatcgtct	225658	-	see also 16908 line
38378	Cox7B	NM_001866.2	100	tttgtcaaaaagccactaaatcgt	225657	-	see also 16908 line
38379	Cox7B	NM_001866.2	258	agcaacacaagtcggaatagaat	225661	-	see also 16908 line
38380	Cox7C	NM_001867.2	236	tgctacacccctccttgtagtaa	225667	-	see also 16909 line
38381	Cox7C	NM_001867.2	216	ttgtacttggtatcgtcattgc	225665	-	see also 16909 line
38382	CyB5	NM_001914.1	89	tgcacacaagtggtatcagatttg	225670	-	see also 16910 line
38383	CyB5	NM_001914.1	92	accacaagtggtacagatttgacc	225671	-	see also 16910 line
38384	SURF1	NM_003172.2	750	ggcgagagcccatcttcattga	225682	-	see also 16911 line
38385	SURF1	NM_003172.2	749	agggcagagcccatcttcatttg	225681	-	see also 16911 line
38386	FLJ13852	NM_023078.1	599	ggctgaaggagccgtaagattgg	225687	-	see also 16912 line
38387	FLJ13852	NM_023078.1	159	gacaggaacctatgtcaattcca	225685	-	see also 16912 line
38388	LOC12294	NM_138791.1	435	ggcgtcgaagtcgctaataatct	225701	-	see also 16913 line
38389	LOC12294	NM_138791.1	683	gtcacggctcaacataattctgg	225709	-	see also 16913 line
38390	P5CR2	NM_013328.2	967	tggccgagcaagaaaagatctcc	225716	-	see also 5400 line
38391	P5CR2	NM_013328.2	225	atctcgtcggctcacagataat	225711	-	see also 5400 line
38392	QDPR	NM_000320.1	224	cagcgctacgcatcattgttaaaa	225722	-	see also 267 line
38393	QDPR	NM_000320.1	225	agcgtaacagatcattgttaaaa	225723	-	see also 267 line
38394	QDPR	NM_000320.1	221	ggccagcgctacgcatcattgtta	225720	-	see also 267 line
38395	PRODH	NM_016335.2	1755	tgtcgaccacccgggtgactttg	225743	-	see also 16916 line
38396	PRODH	NM_016335.2	526	ctcagagagatgaccttctatgg	225741	-	see also 16916 line
38397	PRODH2	NM_021232.1	79	aacgtgagaaccgtattttcaaa	225745	-	see also 16917 line
38398	PRODH2	NM_021232.1	907	ctgcategggtggtgcacagatgc	225751	-	see also 16917 line
38399	ETFDH	NM_004453.1	1647	accgagtgacagatcagctttg	225793	-	see also 2985 line
38400	ETFDH	NM_004453.1	239	ctcgaattatcaccatttact	225755	-	see also 2985 line
38401	PIPOX	NM_016518.1	708	tgcgagataaacgtgtgttactgg	225821	-	see also 6899 line
38402	PIPOX	NM_016518.1	1034	ctcgatgcccccacaaagtatga	225822	-	see also 6899 line
38403	MAOA	NM_000240.2	688	tgttagcggtttgtcttctttt	225834	-	see also 16920 line
38404	MAOA	NM_000240.2	1620	aogttccagcggtagaaatcaccc	225853	-	see also 16920 line
38405	MAOB	NM_000898.3	1107	ttgctacacgttggatgatacc	225882	-	see also 583 line
38406	SMOX	NM_019025.2	1780	ggcaaccacccgaagtactattc	225916	-	see also 7665 line
38407	PNPO	NM_018129.1	638	tocttgatcgaggagatctctgaga	225923	-	see also 7270 line
38408	PNPO	NM_018129.1	779	gccttgatgagcggtatgctttt	225924	-	see also 7270 line
38409	PNPO	NM_018129.1	439	aacttcgagagtgtaaaaggaaa	225921	-	see also 7270 line

図46 (続き)

1051

38410	DAO	NM_001917.3	1030	ttgcactggaccctcaaacaca	225943	-	see also 1221 line
38411	DAO	NM_001917.3	579	cagtgctctgactgaaaggttaac	225930	-	see also 1221 line
38412	GLDC	NM_000170.1	398	ggctggcagcattgatgaattg	225946	-	see also 142 line
38413	MEGF1	NM_032445.1	171	ttcgatcagatctattacacacg	226003	-	see also 16925 line
38414	MEGF1	NM_032445.1	167	cccttcgacgaatctattaca	226002	-	see also 16925 line
38415	MEGF1	NM_032445.1	166	acccttcgatcagatctattac	226001	-	see also 16925 line
38416	QP-C	NM_014402.2	178	cgcgtggcgccaggttttagt	226024	-	see also 16926 line
38417	QP-C	NM_014402.2	41	ggcggaggttggaatctgacg	226018	-	see also 16926 line
38418	QP-C	NM_014402.2	155	ggcgattcggaggtctttttt	226021	-	see also 16926 line
38419	UQCR	NM_006830.2	148	tggactgggttaccttaccatcaat	226030	-	see also 16927 line
38420	UQCR	NM_006830.2	150	gactgggttaccttaccatcaatgg	226031	-	see also 16927 line
38421	UQCRB	NM_006294.2	321	taccttgaaccgtatctgaaaga	226033	-	ubiquinol- cytochrome c reductase
38422	UQCRFS1	NM_006003.1	536	tggcgaaatcgaaatcaagttta	226035	-	see also 16928 line
38423	UQCRFS1	NM_006003.1	533	ccctggcgaatcgaaatcaag	226034	-	see also 16928 line
38424	AKR1B10	NM_020299.3	400	tgcctatgtctatcagaatgaac	226042	-	see also 16929 line
38425	PCYOX1	NM_016297.2	942	tggccactccgttggaatcgaaaa	226087	-	see also 16930 line
38426	PCYOX1	NM_016297.2	944	ggcaactccgttggaatcgaaaaat	226089	-	see also 16930 line
38427	PCYOX1	NM_016297.2	943	ggccactccgttggaatcgaaaa	226088	-	see also 16930 line
38428	MSRA	NM_012331.2	350	agcggccaaatcatctcaatg	226109	-	see also 16931 line
38429	MSRA	NM_012331.2	893	gtctgcgccagtgggttaaaaa	226124	-	see also 16931 line
38430	RRM1	NM_001033.2	1719	aacggcatcgcccatgggaatt	226204	-	see also 631 line
38431	RRM1	NM_001033.2	679	gacgctagagcgggtctattgt	226151	-	see also 631 line
38432	RRM2	NM_001034.1	555	cccgaggagagatattttatc	226232	-	see also 632 line
38433	RRM2B	NM_015713.2	272	gaggtcgacttatcaaaaggatct	226241	-	see also 16934 line
38434	RRM2B	NM_015713.2	588	tgcgatggatagcagatagaaaa	226247	-	see also 16934 line
38435	MDGA1	NM_153487.2	1407	aggtagcgcctcgacaaagtcc	226255	-	see also 16935 line
38436	MDGA1	NM_153487.2	3730	ctgggtcgggtcccggaacaaagg	226274	-	see also 16935 line
38437	FDXR	NM_004110.2	1390	agggatcgggcacgtctcttct	226283	-	see also 16936 line
38438	FDXR	NM_004110.2	286	cccgagggtgaagaatgcatca	226279	-	see also 16936 line
38439	SC4MOL	NM_006745.2	885	tacatggtgggtcgaatttttg	226308	-	see also 16937 line
38440	SC4MOL	NM_006745.2	243	atggggatcccttatagtcgaag	226291	-	see also 16937 line
38441	AKR1D1	NM_005989.1	91	caccgcatacctctaagtgtgag	226311	-	see also 4183 line
38442	AKR1D1	NM_005989.1	183	aacatcggtgaagtgtgctatg	226312	-	see also 4183 line
38443	ALDH1B1	NM_000692.3	539	atcaagggtatcggtactttg	226339	-	see also 16939 line
38444	ALDH1B1	NM_000692.3	1080	cccgacactcgtgggaagatcc	226345	-	see also 16939 line
38445	ALDH8A1	NM_022568.2	1279	ttgaaggagcacaacacgttaag	226374	-	see also 8421 line
38446	ALDH8A1	NM_022568.2	1211	ctgcatgacgagagagatattg	226371	-	see also 8421 line
38447	AMACR	NM_014324.3	970	gactccggttgacttttgagg	226398	-	see also 16941 line
38448	AMACR	NM_014324.3	563	atgtgtcacttgacattatatt	226387	-	see also 16941 line
38449	C10orf33	NM_032709.1	687	gagccacgctcccccattatatt	226406	-	see also 16942 line
38450	C10orf33	NM_032709.1	1162	gtcgcctgtcacaagaatcaatg	226410	-	see also 16942 line
38451	C21orf59	NM_017835.1	615	caggaggaggtgcaggttttaaaa	226418	-	-

図46 (続き)

1052

38452	C2orf59	NM_017835.1	616	agcggaggtcagtggtttaaaaa	226419	-	see also 38451 line
38453	C2orf59	NM_017835.1	613	cccagcggaggtgcaggttttaa	226417	-	see also 38451 line
38454	CED-6	NM_016315.1	1147	ctccagctacgtatgagcttact	226445	-	see also 6804 line
38455	CED-6	NM_016315.1	921	cagatgcaggggtacaaaaag	226440	-	see also 6804 line
38456	CED-6	NM_016315.1	1144	cacctccagttacctagtagctt	226444	-	see also 6804 line
38457	CHDH	NM_018397.1	1595	gtgaagctcaccagagaaatttt	226459	-	see also 7439 line
38458	CHDH	NM_018397.1	1012	tgcagtgagcgtggagtagtca	226451	-	see also 7439 line
38459	CRYL1	NM_015974.1	545	ctgtgaatccgcatactacatc	226473	-	see also 16945 line
38460	CRYL1	NM_015974.1	838	ctcaatcagaaggtagttaag	226477	-	see also 16945 line
38461	CYB5R1	NM_016243.1	474	agcgggttgctacttacctgg	226483	-	see also 16946 line
38462	CYB5R1	NM_016243.1	470	gccaaagcgggtgtctcacttaca	226482	-	see also 16946 line
38463	CYB5R1	NM_016243.1	276	tacctctcaccocgaattgatgg	226480	-	see also 16946 line
38464	CYBB	NM_000397.2	870	gtgggggtttggcgatcacaaca	226519	-	see also 319 line
38465	CYBB	NM_000397.2	398	tgcacgagtaataattctgtatc	226497	-	see also 319 line
38466	DCXR	NM_016286.1	422	agcgggagtaactaaccatagc	226539	-	see also 16948 line
38467	DCXR	NM_016286.1	417	ctccagcgggcagtaactaacc	226538	-	see also 16948 line
38468	DEC2	NM_020864.3	425	atcgacattctattactgtgc	226542	-	see also 16949 line
38469	DEC2	NM_020864.3	687	tggagtggtgtccccaacatc	226546	-	see also 16949 line
38470	DEC2	NM_020864.3	517	taccagcggcacctccaatgtgt	226543	-	see also 16949 line
38471	DHCR24	NM_014762.1	401	cactacgtgtcgggaagtaacaag	226551	-	see also 5949 line
38472	DHCR24	NM_014762.1	404	tactgtgtcgggaagtacagaag	226552	-	see also 5949 line
38473	DHCR24	NM_014762.1	1425	gccgcgtgtgaacacacttgaag	226566	-	see also 5949 line
38474	DHCR7	NM_001360.1	308	ttaactggagagcgtcatcttc	226569	-	see also 16951 line
38475	DHCR7	NM_001360.1	1025	ggccatctactgtgattgactct	226572	-	see also 16951 line
38476	DHRS1	NM_138452.1	356	agcagggccacagttatcatca	226574	-	see also 16952 line
38477	DHRS1	NM_138452.1	1078	gcccggtccagactatttgtct	226587	-	see also 16952 line
38478	DHRS1	NM_138452.1	1165	tccgtgtgcccaagtgagattatt	226591	-	see also 16952 line
38479	DHRS10	NM_016246.1	639	gtgtccgagtcactgtatctcc	226598	-	see also 16953 line
38480	DHRS10	NM_016246.1	578	gccaccaagggggcagtaacagc	226593	-	see also 16953 line
38481	DHRS7	NM_016029.1	570	gggacggtgtccttgacaaaatg	226609	-	see also 16954 line
38482	DHRS7	NM_016029.1	568	tagggacggtgtccttgacaaaa	226607	-	see also 16954 line
38483	DHRS8	NM_016245.1	832	gtctgttcttaatttcgtaaac	226638	-	see also 16955 line
38484	DHRS8	NM_016245.1	659	tgcattgacgaagaataaaccatg	226635	-	see also 16955 line
38485	DHRS8	NM_016245.1	655	ttcctgcaatgcagagaataaac	226634	-	see also 16955 line
38486	DHRSX	NM_145177.1	431	gagatggattcgaagaacatttc	226673	-	see also 16957 line
38487	DHRSX	NM_145177.1	794	tccgctgtgttcttttcaagacc	226675	-	see also 16957 line
38488	DKFZp566O084	NM_015510.3	775	accggggatggatctaggtatgg	226684	-	see also 16958 line
38489	DKFZp566O084	NM_015510.3	619	aagatggagcatccttcttcgatac	226680	-	see also 16958 line
38490	DKFZp566O084	NM_015510.3	694	gccgagatggaaacagtataaat	226682	-	see also 16958 line
38491	ERO1LB	NM_019891.2	508	gagtaaatccgggttgataaa	226691	-	see also 7747 line
38492	ERO1LB	NM_019891.2	679	ttcacgggatcacttttgaac	226701	-	see also 7747 line

図 46 (続き)

1053

38493	ERO11LB	NM_019891.2	724	tgtcagatgtagaccattgc	226703	-	see also 7747 line
38494	FADS2	NM_004265.2	1349	ccccgtggtgaagtctctatgt	226742	-	see also 2865 line
38495	FADS2	NM_004265.2	1462	ctggacgcctccctccacaattg	226744	-	see also 2865 line
38496	FADS3	NM_021727.3	412	ttctacagccctctgttattgg	226746	-	see also 16961 line
38497	FADS3	NM_021727.3	1064	atgcgcgtctctcttctctac	226748	-	see also 16961 line
38498	FLJ11042	NM_018308.1	964	cacactaccaggttaacctaga	226763	-	see also 16962 line
38499	FLJ11042	NM_018308.1	865	tttgtggccagaaattattataa	226762	-	see also 16962 line
38500	FLJ11577	NM_025159.1	817	atccagcggctactctctctattg	226777	-	see also 16963 line
38501	FLJ11577	NM_025159.1	1094	ggccgctattgcaattgtatgca	226787	-	see also 16963 line
38502	FLJ12661	NM_025138.2	2715	ggacacattggccgtgcatatcac	226830	-	see also 16964 line
38503	FLJ12661	NM_025138.2	1259	acctagccgcataaatggaattt	226793	-	see also 16964 line
38504	FLJ20643	NM_017916.1	712	atccggaatggccgatgatgaag	226858	-	see also 16965 line
38505	FLJ20643	NM_017916.1	713	tccggaatggccgatgatgaaga	226859	-	see also 16965 line
38506	FLJ20643	NM_017916.1	416	ctcggaaagggaagttttcatca	226855	-	see also 16965 line
38507	FVT1	NM_002035.1	251	tgtctagagtgctataacaag	226865	-	see also 16966 line
38508	FVT1	NM_002035.1	800	gctttggagactcgactattt	226877	-	see also 16966 line
38509	FZD7	NM_003507.1	347	ccggaactccgctttttttattg	226890	-	see also 16967 line
38510	FZD7	NM_003507.1	343	ttctccgaactccgctttttct	226887	-	see also 16967 line
38511	FZD7	NM_003507.1	345	ctccggaactccgctttttctta	226888	-	see also 16967 line
38512	GFOD1	NM_018988.1	1730	gacggcgagtgaggcagacattg	226894	-	-
38513	GFOD1	NM_018988.1	813	ttctacactagccgcgatgatga	226893	-	see also 38512 line
38514	GMIP	NM_016573.1	623	ggcgcgaacggcactggagattga	226900	-	see also 16968 line
38515	GMIP	NM_016573.1	625	cgccaaacggcagtagatgaga	226901	-	see also 16968 line
38516	H17	NM_017547.2	1316	ccccacccgctagtgtaaca	226929	-	see also 7028 line
38517	H17	NM_017547.2	1321	accgctagtgtaacatgtatc	226930	-	see also 7028 line
38518	H17	NM_017547.2	1322	ccgctagtgtaacatgtatc	226931	-	see also 7028 line
38519	HSD17B12	NM_016142.1	898	tgtcttatgggctcgtataatct	226958	-	see also 16970 line
38520	HSD17B12	NM_016142.1	900	ctcttagggctcgtataatctca	226959	-	see also 16970 line
38521	HSD17B12	NM_016142.1	968	aagctacacgggctcactatct	226961	-	see also 16970 line
38522	KIAA0769	NM_014824.1	995	tagcggacaggttagaatacagaaa	226999	-	see also 6026 line
38523	KIAA0769	NM_014824.1	1238	agccgggttggaactgctataaag	227010	-	see also 6026 line
38524	KREMEN2	NM_024507.2	977	agcgctcagggcgctcatctact	227038	-	see also 16972 line
38525	LISCH7	NM_015925.3	1687	agcaggtctccacagagtaattg	227040	-	see also 6573 line
38526	LOC28398	NM_178128.2	1066	accgtacaaacaggactcattacc	227051	-	see also 16974 line
38527	LOC28398	NM_178128.2	1110	tccgtcgtatgaggaaattcatg	227052	-	see also 16974 line
38528	LOC28398	NM_178128.2	880	ggcccgctcggattcacatgatga	227049	-	see also 16974 line
38529	MAWBP	NM_022129.1	553	tccgctcagtgacggtttacaac	227058	-	see also 16975 line
38530	MAWBP	NM_022129.1	870	gacggaagggttgacattagagg	227064	-	see also 16975 line
38531	MGC10204	NM_153329.2	1507	cccagacgggctgtatgatgtc	227072	-	see also 16976 line
38532	MGC10204	NM_153329.2	191	tgtctggccactatgtgaatgg	227067	-	see also 16976 line
38533	MGC11335	NM_030819.2	492	tccgtgaaggctctaggattgg	227078	-	see also 16977 line
38534	MGC11335	NM_030819.2	491	atccgtgaaggctctaggattgg	227077	-	see also 16977 line
38535	MGC15763	NM_138381.1	601	tccttcgacggggagattgtgca	227087	-	see also 16978 line
38536	MGC15763	NM_138381.1	1085	taccagcgaactcctctgttaaga	227101	-	see also 16978 line

38537	MGC23280	NM_144683.2	636	ctgtgggagcgttgacttca	227113	-	see also 16979 line
38538	MGC23280	NM_144683.2	1207	caccgaattcaggctaaagtga	227125	-	see also 16979 line
38539	MGC4172	NM_024308.2	706	gacacattcgccttcaactcc	227139	-	see also 16980 line
38540	MGC4172	NM_024308.2	522	tggacgatggcacatcaataac	227132	-	see also 16980 line
38541	MRPS30	NM_016640.2	70	tacgggttcaggcttcttattg	227140	-	see also 16984 line
38542	MRPS30	NM_016640.2	768	tccaagcaactcgcagagtgtg	227150	-	see also 16984 line
38543	NOX3	NM_015718.1	221	ttcattacacagcaggtatttt	227172	-	see also 16984 line
38544	NOX3	NM_015718.1	891	aggaacctcgccttggaatgg	227185	-	see also 16984 line
38545	NR1	NM_014434.1	724	aggaacctcgccttggaatgg	227207	-	see also 16983 line
38546	NR1	NM_014434.1	726	gacgttgccgtgagtttga	227208	-	see also 16983 line
38547	PECR	NM_018441.2	280	cacgagtcattccatacaatgc	227221	-	see also 16984 line
38548	PECR	NM_018441.2	209	atccgtgaattggagagattga	227217	-	see also 16984 line
38549	PHYH	NM_006214.2	874	agggattccggaggaagcaatttc	227275	-	see also 16985 line
38550	PHYH	NM_006214.2	849	cacgagtcgtcagaaataaac	227274	-	see also 16985 line
38551	RDH-E2	NM_138969.2	958	gagtagccgacccaggttaaaaa	227288	-	see also 16986 line
38552	RDH-E2	NM_138969.2	1005	atcaacaatccgggaatcgtaac	227294	-	see also 16986 line
38553	RDH10	NM_172037.1	871	ctgccgggattggaggtactgt	227311	-	see also 10033 line
38554	RDH11	NM_016026.2	710	ggcgttacgacgattctgtaca	227337	-	see also 6626 line
38555	RDH11	NM_016026.2	753	aactggttgacacatcttttc	227338	-	see also 6626 line
38556	RDH12	NM_152443.1	665	tgcacctgcacgggtgttaatg	227349	-	see also 16989 line
38557	RDH12	NM_152443.1	666	ggcccttgacgggtgttaatg	227350	-	see also 16989 line
38558	RDH12	NM_152443.1	352	ggcggaggccggagctctatt	227345	-	see also 16989 line
38559	RDH13	NM_138412.2	608	agcggagtggacattctaataac	227355	-	see also 16990 line
38560	RDH13	NM_138412.2	753	agcccttcgggagcatcaaac	227359	-	see also 16990 line
38561	RDH14	NM_020905.1	1051	gtgatgtggcctgctaaata	227381	-	see also 16991 line
38562	RDH14	NM_020905.1	998	tgcacaaagctgagtgatct	227379	-	see also 16991 line
38563	RODH	NM_003725.2	934	tgcacgcggaactcggatcca	227397	-	see also 16992 line
38564	RODH	NM_003725.2	678	ctgaggcgtgagattcaacatt	227387	-	see also 16992 line
38565	SCDR9	NM_178135.2	870	acgcgcctcagcgatttaaatc	227433	-	see also 16993 line
38566	SCDR9	NM_178135.2	869	aacggcctcagcgatttaaat	227432	-	see also 16993 line
38567	SDR-O	NM_148897.1	559	agcgttgagctctactacttgg	227437	-	see also 16994 line
38568	SDR-O	NM_148897.1	558	aaggcgtgagctctactacttgg	227436	-	see also 16994 line
38569	SELO	NM_031454.1	1405	gacgggtgcgacttcaaaaaa	227456	-	see also 9033 line
38570	SELO	NM_031454.1	734	gtgttgccgagctgtttctatga	227446	-	see also 9033 line
38571	SEPW1	NM_003009.1	216	tagccgggaagtgtgactctct	227459	-	see also 16996 line
38572	SEPW1	NM_003009.1	190	ggccacccgggttcttgaagtga	227457	-	see also 16996 line
38573	SHREW1	NM_018836.2	1503	ctcgacgacggggaggtacaaat	227466	-	see also 16997 line
38574	SHREW1	NM_018836.2	1062	ccccatgacgctcagactaagg	227465	-	see also 16997 line
38575	SHREW1	NM_018836.2	1551	ctctctgatcgcatctctatc	227469	-	see also 16997 line
38576	SLC35C2	NM_015945.1	636	caccgtctcgtctacacaaatga	227472	-	see also 16998 line
38577	SLC35C2	NM_015945.1	1126	ctctccattccggcacttttaa	227476	-	see also 16998 line
38578	SLC35C2	NM_015945.1	1223	ccctctccctcgggaataatcc	227478	-	see also 16998 line
38579	TM7SF2	NM_003273.1	937	gtcgctcgtctatctctataac	227483	-	see also 16999 line
38580	TM7SF2	NM_003273.1	935	gagtgccctgctatctctatta	227482	-	see also 16999 line

図 4.6 (続き)

1055

38581	TSTA3	NM_003313.2	409	gacgacccctaccgagatagatgaga	227494	-	see also 17000 line
38582	TSTA3	NM_003313.2	61	gggattccctcggtatcttagtga	227499	-	see also 17000 line
38583	ANAPC2	NM_013366.2	2306	ctcactgagatcgatctacaaca	227510	-	see also 17001 line
38584	ANAPC2	NM_013366.2	2306	cactgagatcgatctacaacatg	227511	-	see also 17001 line
38585	ANAPC4	NM_013367.1	85	tcgcccgaagcggatctcattgc	227514	-	see also 5410 line
38586	ANAPC4	NM_013367.1	84	gtcgcccgaagcggatctcattgc	227513	-	see also 5410 line
38587	ANAPC5	NM_016237.3	992	ctgcgccttcggtcactatcaac	227600	-	see also 6739 line
38588	APC10	NM_014885.1	607	gacacccatagagacacaaataa	227635	-	see also 17004 line
38589	APC10	NM_014885.1	504	accaagtgcgtggatca'gttc	227632	-	see also 17004 line
38590	APC10	NM_014885.1	525	tccttaactgacaacaataaga	227633	-	see also 17004 line
38591	C14orf130	NM_018108.2	1091	caaggagcatccccaatggata	227656	-	see also 7256 line
38592	C14orf130	NM_018108.2	662	tggattggcggacaattgatg	227640	-	see also 7256 line
38593	C6orf133	NM_015255.1	986	atggccttcgccgattttatgt	227696	-	see also 17006 line
38594	C6orf133	NM_015255.1	2372	tggctcatagtgatgtgtaag	227759	-	see also 17006 line
38595	CDC34	NM_004359.1	392	ccatcgactaccatctctcc	227835	-	see also 17007 line
38596	CDC34	NM_004359.1	300	acgaggcgatctatacaactgg	227834	-	see also 17007 line
38597	CEB1	NM_016323.1	366	gcccggaccccaaatgcattaa	227836	-	see also 17008 line
38598	CEB1	NM_016323.1	367	ccggagccgaaatgcattaaa	227837	-	see also 17008 line
38599	DD5	NM_015902.3	7479	ctctagtcgaagtgtagtagata	228114	-	see also 17009 line
38600	DD5	NM_015902.3	962	aactgaatccgtttacgttta	227935	-	see also 17009 line
38601	DD5	NM_015902.3	5726	gacgagcgccacctgcttagc	228076	-	see also 17009 line
38602	DKFZP564	NM_015601.2	2497	atcctaaataccgcatgttttagg	228217	-	see also 6502 line
38603	G092	NM_015601.2	506	tacgttagcgctaaatgacaaaag	228155	-	see also 6502 line
38604	G092	NM_015601.2	3085	gggcagagaacatcctacgataaaa	228240	-	see also 6502 line
38605	E2-230K	NM_022066.2	1071	gtgaagcgtctcgatgctttga	228262	-	see also 17011 line
38606	E2-230K	NM_022066.2	1243	aggttgccggatcagtcacgc	228266	-	see also 17011 line
38607	FBXL3A	NM_012158.1	1451	gcccctatctcaattatccatt	228350	-	see also 5154 line
38608	FBXL3A	NM_012158.1	1323	tggattacggccactgtatgaag	228342	-	see also 5154 line
38609	FBXL3B	NM_012159.1	1032	tcctgactgattgatttagtg	228377	-	see also 17013 line
38610	FBXL3B	NM_012159.1	771	ctcaagcgagactatgtaaac	228360	-	see also 17013 line
38611	FBXL5	NM_012161.2	885	gtccgcgaactgaactgtatact	228399	-	see also 5162 line
38612	FBXL5	NM_012161.2	1002	ctgcggaggaataaattgtatc	228403	-	see also 5162 line
38613	FBXL6	NM_012162.1	1115	gcgagctcaacctcaactttgt	228427	-	see also 17015 line
38614	FBXL6	NM_012162.1	360	gagacgcattcccttggaatc	228424	-	see also 17015 line
38615	FBXL7	NM_012304.3	1706	atcgcaaatgcccttggatc	228435	-	see also 17016 line
38616	FBXL7	NM_012304.3	545	gactgagttcaagtacagatca	228430	-	see also 17016 line
38617	FBXO11	NM_012167.1	1081	cacttatcatccgaagtacatg	228467	-	see also 17017 line
38618	FBXO11	NM_012167.1	1425	tacagtgttcgatgtgaattc	228474	-	see also 17017 line
38619	FBXO2	NM_012168.2	991	tacagctcacccgtaagctact	228530	-	see also 17018 line
38620	FBXO21	NM_015002.1	332	gggttagaagcggcggaattgt	228536	-	see also 6184 line
38621	FBXO24	NM_012172.2	245	gagaaggcgtcccttggtaag	228571	-	see also 17020 line

1056

図46 (続き)

38622	FBXO24	NM_012172.2	1098	tgcgcgtggcgcgtgatgacttcc	228582	-	see also 17020 line
38623	FBXO3	NM_012175.2	440	aagcttcctacgattatgatg	228602	-	see also 5178 line
38624	FBXO3	NM_012175.2	447	ctgacgattatcgtatgttcatac	228604	-	see also 5178 line
38625	FBXO4	NM_012176.1	242	gcgcgattgatcacagtatat	228631	-	see also 17022 line
38626	FBXO4	NM_012176.1	687	cagagcagattggtggttgg	228643	-	see also 17022 line
38627	FBXO5	NM_012177.2	170	ctgcacctcggatgattgtaaa	228661	-	see also 17023 line
38628	FBXO5	NM_012177.2	410	ctgaagcaagcgctgcataaac	228672	-	see also 17023 line
38629	FBXO7	NM_012179.2	695	atgtaggcgctagtcacaaattt	228720	-	see also 5180 line
38630	FBXO7	NM_012179.2	521	gacattccagcgctcataatacc	228714	-	see also 5180 line
38631	FBXO9	NM_012347.2	842	ttcgatttgatggcgttatato	228770	-	see also 17025 line
38632	FBXO9	NM_012347.2	848	ttgatggcgttatcagtaaa	228771	-	see also 17025 line
38633	FBXW1B	NM_012300.1	1223	caccggcgtgcgcgtcaatgtagt	228815	-	see also 5267 line
38634	FBXW1B	NM_012300.1	1002	atgatgagcgtgctatgtaact	228812	-	see also 5267 line
38635	FBXW2	NM_012164.2	1298	tgcggacagagcgctgattagt	228852	-	see also 5165 line
38636	FLJ11011	NM_018299.1	306	agcgcctcagtcacatcagttt	228858	-	see also 17027 line
38637	FLJ11011	NM_018299.1	183	tagtagtcgatatcctttgact	228854	-	see also 17027 line
38638	FLJ25157	NM_152653.1	486	ttcaccagcatatccgttaaac	228885	-	see also 17029 line
38639	FLJ25157	NM_152653.1	515	agttacattccgaacaaagato	228888	-	see also 17029 line
38640	FTS	NM_022476.1	857	gacccctatgaattagcttttc	228918	-	see also 17030 line
38641	FTS	NM_022476.1	818	gtgtgcaactcgtgtgttttga	228914	-	see also 17030 line
38642	HACE1	NM_020771.2	417	atgcattcggacgtgtgaaaga	228926	-	see also 7947 line
38643	HACE1	NM_020771.2	659	gtgaatggcgcgagacagactact	228933	-	see also 7947 line
38644	HECTD1	NM_015382.1	4747	ctggagagctagtgcacatoc	229129	-	see also 17032 line
38645	HECTD1	NM_015382.1	5669	tagacctggtcgtactaagtcc	229156	-	see also 17032 line
38646	HERC1	NM_003922.1	9748	atccgaacgctagtcttgattaat	229480	-	see also 17033 line
38647	HERC1	NM_003922.1	9749	tcggaacgctagtctgattaatg	229481	-	see also 17033 line
38648	HERC2	NM_004667.2	9228	gcgcgacgacgacggttaact	229668	-	see also 3188 line
38649	HERC2	NM_004667.2	9565	gacccgatgaagggttggtatttt	229677	-	see also 3188 line
38650	HERC2	NM_004667.2	13211	ttgcacactctccgagaaattct	229706	-	see also 3188 line
38651	HERC3	NM_014606.1	1227	cgcgcgtgactgcgtttaaatat	229747	-	see also 5769 line
38652	HERC3	NM_014606.1	883	acgcacgcaaaaagttgtctata	229731	-	see also 5769 line
38653	HERC3	NM_014606.1	1810	gtctcagatgcccgaatatt	229769	-	see also 5769 line
38654	HIP2	NM_005339.3	389	gactcgcgcgctgattattgt	229825	-	see also 3728 line
38655	HIP2	NM_005339.3	391	ctctcgcacaggtattattgca	229826	-	see also 3728 line
38656	HSPG150	NM_014176.1	223	gacctgcgagctcaaatattagg	229841	-	see also 5525 line
38657	HSPG150	NM_014176.1	221	atgcactgcgagctcaaatattta	229840	-	see also 5525 line
38658	ITCH	NM_031483.3	1062	cacggcgagttactatagaga	229882	-	see also 17038 line
38659	ITCH	NM_031483.3	1065	ggcgagttactatgtagatga	229884	-	see also 17038 line
38660	KIAA0010	NM_014671.1	898	ttgcactatcatgtatccaatgg	229949	-	see also 5849 line
38661	KIAA0010	NM_014671.1	1065	aggtgcgggcaacaagtthta	229956	-	see also 5849 line
38662	KIAA0317	NM_014821.1	2237	taggaactcgctatgattacaag	230072	-	see also 6017 line
38663	KIAA0322	NM_015052.1	390	atcgatgccagctgactttgt	230093	-	see also 6210 line
38664	KIAA0322	NM_015052.1	3120	aacggctcgtctcccaatctct	230120	-	see also 6210 line
38665	KIAA0322	NM_015052.1	4415	caccgggaaatcgacctaaatg	230148	-	see also 6210 line

1057

図46 (続き)

38666	LOC51619	NM_015983.2	370	agcgttgactgtgtcaaaagttc	230160	-	see also 17042 line
38667	LOC51619	NM_015983.2	503	gagtggacacaaaataatgtctat	230162	-	see also 17042 line
38668	LOC92912	NM_173489.1	1252	agcaagagcccaacaactcctata	230171	-	see also 17043 line
38669	LOC92912	NM_173489.1	809	ggatcagtgcaagcttcagatag	230165	-	see also 17043 line
38670	MGC35130	NM_152488.1	723	tacttaagaccacgctaaatgt	230191	-	see also 17044 line
38671	MGC35130	NM_152489.1	299	aacaattataagggtactactgc	230177	-	see also 17044 line
38672	NCE2	NM_080678.1	618	ttagtactacatcaaacgttat	230211	-	see also 17045 line
38673	NCE2	NM_080678.1	97	aacgctagcaagtaaaactgaagc	230196	-	see also 17045 line
38674	NEDD4	NM_006154.1	689	atccttggagagaccctattatgt	230230	-	see also 4280 line
38675	NEDD4	NM_006154.1	2596	tgtgaactatacgggtcaaatg	230276	-	see also 4280 line
38676	NEDD4L	NM_015277.2	1732	ttggatggccggaacggttttat	230389	-	see also 6303 line
38677	NEDD4L	NM_015277.2	1737	tggcgaacggttttatattgac	230391	-	see also 6303 line
38678	RBAF600	NM_020765.1	9619	cgcgctcaagtcgcgaactct	230637	-	see also 17047 line
38679	RBAF600	NM_020765.1	13139	ggcgcgtgtaggggatataaag	230707	-	see also 17047 line
38680	RBAF600	NM_020765.1	13850	ttgcatactccagctactctcc	230722	-	see also 17047 line
38681	SMURF1	NM_020429.1	1436	ggatagcaagagagatagctcc	230785	-	see also 7871 line
38682	SMURF1	NM_020429.1	360	aagatccgcttgacagtgattg	230759	-	see also 7871 line
38683	SMURF2	NM_022739.2	754	cagacccggcatccgaattct	230817	-	see also 17049 line
38684	SMURF2	NM_022739.2	2266	caggcccgagactctttaccata	230862	-	see also 17049 line
38685	TRIP12	NM_004238.1	1609	tgttgttcgagccttaacataca	230906	-	see also 2828 line
38686	TRIP12	NM_004238.1	1608	atgcttgcgagccttaacatac	230905	-	see also 2828 line
38687	UBE2A	NM_003336.2	431	tagtatatgtctggacatacttc	231072	-	see also 17051 line
38688	UBE2A	NM_003336.2	475	atgatgtgttccattctaaca	231073	-	see also 17051 line
38689	UBE2B	NM_003337.2	752	tgttgatgaacgcgaatcctaac	231090	-	see also 2257 line
38690	UBE2B	NM_003337.2	683	tagatatccttcagaaatcgatgg	231086	-	see also 2257 line
38691	UBE2C	NM_007019.2	532	atgctcgagctctggaaaaac	231097	-	cell cycle
38692	UBE2D1	NM_003338.3	381	ctgtacatttccgacagattat	231106	-	-
38693	UBE2D1	NM_003338.3	572	gaccccttagtaccagatatggc	231110	-	see also 2258 line
38694	UBE2D2	NM_003339.2	755	tccctatcagggtggagattttt	231116	-	see also 17054 line
38695	UBE2D2	NM_003339.2	717	ttccattggcaagctacaataat	231115	-	see also 17054 line
38696	UBE2E1	NM_003341.3	384	tcccaagggcgataacatctatg	231130	-	see also 17055 line
38697	UBE2E1	NM_003341.3	383	gtcccaagggcgataacatctat	231129	-	see also 17055 line
38698	UBE2G1	NM_003342.3	469	acogattgggaagctcctattatt	231143	-	see also 2259 line
38699	UBE2G1	NM_003342.3	468	taccgatgggaagctcctattatt	231142	-	see also 2259 line
38700	UBE2G2	NM_003343.4	267	ccogttaagtcctcccaagatga	231159	-	see also 17057 line
38701	UBE2G2	NM_003343.4	156	cccatgaatgaaggaactttt	231157	-	see also 17057 line
38702	UBE2H	NM_003344.2	534	aaggcggagatgaaagtaga	231166	-	see also 17058 line
38703	UBE2H	NM_003344.2	553	tagagtggactctacctgataaat	231168	-	see also 17058 line
38704	UBE2I	NM_003345.3	538	agcagaggcctacacgattact	231192	-	see also 17059 line
38705	UBE2I	NM_003345.3	537	aagcagaggcctacacgattac	231191	-	see also 17059 line
38706	UBE2J1	NM_016021.2	565	aacggctaatgtcgttggaag	231202	-	see also 6622 line
38707	UBE2J1	NM_016021.2	706	agccataggtctctagattaca	231213	-	see also 6622 line
38708	UBE2J2	NM_058167.2	888	ggcgaactgtttgtgtagtg	231243	-	see also 17061 line
38709	UBE2J2	NM_058167.2	413	ctcccaagtattctatgatcact	231238	-	see also 17061 line

図46 (続き)

1058

38710	UBE2J2	NM_058167.2	591	gtgcgacttcacgaaagacaaac	231240	-	see also 17061 line
38711	UBE2L6	NM_004223.3	283	ttaagccctccatgatcaaat	231248	-	see also 17062 line
38712	UBE2Q	NM_017582.5	551	tccgacctgtgtaaacctctataa	231264	-	see also 7037 line
38713	UBE2Q	NM_017582.5	550	ctcgcacctgtgtaaacctctata	231263	-	see also 7037 line
38714	UBE2R2	NM_017811.2	750	ctggcggaatactgcatacaaac	231303	-	see also 7156 line
38715	UBE2R2	NM_017811.2	549	gtgaggaactatctattaaagtgt	231295	-	see also 7156 line
38716	UBE2V2	NM_003350.2	383	agctaagacgcttaagtgtgtcc	231321	-	see also 17064 line
38717	UBE2V2	NM_003350.2	319	gcccggagcattaccagctgttagc	231319	-	see also 17064 line
38718	UBE3A	NM_000462.2	214	gocctcagagcttataaagttaa	231328	-	see also 364 line
38719	UBE3A	NM_000462.2	829	tactctcgagatcctaattatct	231343	-	see also 364 line
38720	UBE3B	NM_130466.2	712	caggcccatgtcggagttttct	231401	-	see also 9545 line
38721	UBE3B	NM_130466.2	1911	gtcggcatcagtcgggaatttc	231434	-	see also 9545 line
38722	UBR1	NM_174916.1	3833	ttggcggttgagctcttcgattaaa	231582	-	see also 10125 line
38723	UBR1	NM_174916.1	3835	ggcggttgagctcttcgattaaa	231584	-	see also 10125 line
38724	C6orf104	NM_031949.2	610	ttgtcatgcccgaatgactatcac	231642	-	see also 17068 line
38725	C6orf104	NM_031949.2	675	caccgaagcatagctattgatttt	231647	-	see also 17068 line
38726	FLJ35808	NM_173623.1	1275	gacggacacaggggtggtatcttta	231699	-	see also 17069 line
38727	FLJ35808	NM_173623.1	1046	ctctaccgagctcgaggaaatcac	231690	-	see also 17069 line
38728	FLJ36119	NM_153254.1	324	tgcgaactcggatgacactaacg	231708	-	see also 17070 line
38729	FLJ36119	NM_153254.1	1116	caccacacacacatgactctttct	231710	-	see also 17070 line
38730	KIAA0153	NM_015140.1	627	cgccacggcaccctctcttaca	231713	-	see also 17071 line
38731	KIAA0153	NM_015140.1	1529	agcaactcagctgtaactaat	231716	-	see also 17071 line
38732	KIAA0173	NM_014640.1	1052	gtgcccatactgocctgtgtctacc	231730	-	see also 17072 line
38733	KIAA0173	NM_014640.1	1117	tgggtataaccgggaataaacttagc	231733	-	see also 17072 line
38734	KIAA0998	NM_015072.2	1707	caggatcgtgctctatcaacaag	231818	-	see also 17073 line
38735	KIAA0998	NM_015072.2	1704	aggcaggagctgtgctatctaaac	231816	-	see also 17073 line
38736	LOC15813	NM_194252.1	951	gacggactctctaggtttttgtac	231842	-	see also 17074 line
38737	LOC15813	NM_194252.1	895	ttcgtctgtatgtttactcaag	231836	-	see also 17074 line
38738	TTL	NM_153712.2	729	cacgtgatccgagaataatctga	231875	-	see also 10017 line
38739	TTL	NM_153712.2	726	gtgcacgtgatccagaaatattct	231874	-	see also 10017 line
38740	TTL1	NM_012263.2	845	accgtccactgcgctgttactatg	231896	-	see also 17076 line
38741	TTL1	NM_012263.2	1290	cgccgtcccggaatggtgaatcc	231905	-	see also 17076 line
38742	TTL1	NM_012263.2	729	ttcgtttgtctcactatcaata	231893	-	see also 17076 line
38743	GCLC	NM_001498.1	1125	gacatcgaacttgacagatagataa	231943	-	see also 1027 line
38744	GCLC	NM_001498.1	1070	atcccgatagactcaatagagaca	231939	-	see also 1027 line
38745	GCLM	NM_002061.1	996	tgcggattccgctcatgttgaaa	231979	-	see also 17078 line
38746	GCLM	NM_002061.1	734	gccatagtagctctgactaga	231972	-	see also 17078 line
38747	GCLM	NM_002061.1	785	tgggcacagggttaaaccaaatag	231974	-	see also 17078 line
38748	PAICS	NM_006452.2	757	ttgttaacttggttatatgaaga	231998	-	see also 17079 line
38749	PAICS	NM_006452.2	211	gacagctgaggtgactgaacattg	231983	-	see also 17079 line
38750	MCCC2	NM_022132.3	1740	agccctcaacacacaaatagaga	232041	-	see also 17080 line
38751	MCCC2	NM_022132.3	672	tggccgtacattctataatcagg	232014	-	see also 17080 line
38752	PCCB	NM_000532.2	394	cacttggaacaggccgaatcaatg	232045	-	see also 17081 line
38753	PCCB	NM_000532.2	399	gacggaggccgaatcaatggaga	232046	-	see also 17081 line

図46 (続き)

1059

38754	CTPS	NM_001905.1	143	tgggcacataactcaagtcattgt	232071	-	see also 1218 line
38755	CTPS	NM_001905.1	459	ggcgttaataccctagatgaag	232083	-	see also 1218 line
38756	CTPS2	NM_019857.3	669	gagcccaataatagcgttttga	232116	-	see also 7740 line
38757	CTPS2	NM_019857.3	905	aagttcaacgcccattgagatgg	232121	-	see also 7740 line
38758	HLCS	NM_000411.3	1620	accttccatcgattatgacgc	232153	-	see also 325 line
38759	HLCS	NM_000411.3	2845	ccggtttgcagcatctcgtgt	232177	-	see also 325 line
38760	ASNS	NM_001673.2	1729	tactacgcfaagctcttgaacg	232194	-	see also 17085 line
38761	ASNS	NM_001673.2	810	acccttgcagccctctatgaca	232189	-	see also 17085 line
38762	LIAS	NM_006859.2	141	ggccagtcagacccgttaagctcc	232195	-	see also 17086 line
38763	LIAS	NM_006859.2	817	tctggtatcctcgcccaatttg	232212	-	see also 17086 line
38764	GLUL	NM_002065.3	735	accctaacaagctgtgtttatgt	232234	-	see also 17087 line
38765	GLUL	NM_002065.3	1307	taccacatccgtgcctatgatcc	232243	-	see also 17087 line
38766	GLUL	NM_002065.3	1526	atccgcacgtgtctctcaatga	232247	-	see also 17087 line
38767	GLULD1	NM_016571.1	1237	aggcaccgcagatagaaaaataac	232286	-	see also 6919 line
38768	GLULD1	NM_016571.1	1462	aggagaacactttattcgtatt	232294	-	see also 6919 line
38769	HAL	NM_002108.2	387	ggcgtgagggcgtctatcaaga	232297	-	see also 1359 line
38770	HAL	NM_002108.2	386	aggccgtgagggcgtctatataaag	232296	-	see also 1359 line
38771	BCL7C	NM_004765.2	666	cccgaaagcttaccctgttttga	232343	-	see also 17090 line
38772	BCL7C	NM_004765.2	391	ctctatctcgtggtatcttaatt	232341	-	see also 17090 line
38773	RCL1	NM_005772.2	239	cccgctcaaaatccgaagatttc	232344	-	see also 4030 line
38774	RCL1	NM_005772.2	329	aacgaatgtgtctcgaattgaaa	232348	-	see also 4030 line
38775	RCL1	NM_005772.2	486	caccgtttaaataagttcttaag	232356	-	see also 4030 line
38776	SLC27A2	NM_003645.2	666	ctgctgggtgcgcgcgaactaca	232374	-	see also 17092 line
38777	SLC27A2	NM_003645.2	590	tcccatgctgcgcgcctcaattaca	232371	-	see also 17092 line
38778	SLC27A5	NM_012254.1	1641	ggcaatcggcggaogtttactaac	232433	-	see also 17093 line
38779	SLC27A5	NM_012254.1	1645	atcgggagacggtttactacaaca	232434	-	see also 17093 line
38780	SLC27A6	NM_014031.1	1238	cagctacccaagaatcaagcatctc	232463	-	see also 17094 line
38781	SLC27A6	NM_014031.1	1808	atgcttgcacacgatttttaaga	232478	-	see also 17094 line
38782	SUCLG2	NM_003848.1	149	gacaaacggagtgagagttcaag	232484	-	-
38783	SUCLA2	NM_003850.1	590	aaggtctctgtattatagaaggt	232503	-	see also 17095 line
38784	SUCLA2	NM_003850.1	262	gtctccgttcccaagagatatgt	232492	-	see also 17095 line
38785	ACAS2L	NM_032501.2	1881	ggcgacatcgggttgattacagg	232533	-	see also 9222 line
38786	ACAS2L	NM_032501.2	1241	gtcccccagagcggtgtgttga	232525	-	see also 9222 line
38787	ACAS2L	NM_032501.2	1244	ccccgagacggtgtgtgtgatgt	232526	-	see also 9222 line
38788	AACS	NM_023928.2	1569	ggggcgagctggtgtgttaag	232566	-	see also 17097 line
38789	AACS	NM_023928.2	1777	cggcagctcgggaactctataaca	232571	-	see also 17097 line
38790	BIRC6	NM_016252.1	12913	ccgctcagtaatcggttaaatgg	232969	-	see also 6755 line
38791	BIRC6	NM_016252.1	4106	gacgaagtatagccccaagtgt	232698	-	see also 6755 line
38792	BTRC	NM_003939.2	603	ctggatgccaaatcaactatgtgc	233028	-	see also 2696 line
38793	BTRC	NM_003939.2	961	gccttcgagacaacacaatcaag	233040	-	see also 2696 line
38794	C2orf18	NM_006462.2	1100	ccgggtgcaccttcaatcaacaa	233061	-	see also 17100 line
38795	C2orf18	NM_006462.2	1611	tgcgaagaccacgattgcaagg	233064	-	see also 17100 line
38796	CUL1	NM_003592.2	1608	gagttgtgctcgtgactatgga	233113	-	see also 2402 line
38797	CUL1	NM_003592.2	1839	gggttcgagtcacaccttaaac	233117	-	see also 2402 line

1060

図46 (続き)

38798	GGCX	NM_000821.2	440	taccgataaagctgtgtgtatt	233150	-	see also 520 line
38799	GGCX	NM_000821.2	1296	ctggcgaaactgggctacttaac	233161	-	see also 520 line
38800	LPT1	NM_015929.2	775	ctgatgggacgtctctgtctct	233207	-	see also 17102 line
38801	LPT1	NM_015929.2	828	agcaatggcaactgctagcaatcc	233210	-	see also 17102 line
38802	MOCS3	NM_014484.3	260	gaccggctgctgctgaatcgtgg	233258	-	see also 17103 line
38803	MOCS3	NM_014484.3	519	gacctgctcccgccgatgatgt	233260	-	see also 17103 line
38804	PARC	NM_015089.1	599	gtcgggctcacgctctctatca	233282	-	see also 17104 line
38805	PARC	NM_015089.1	1743	ctcgtctacttcacgaatacct	233297	-	see also 17104 line
38806	RNF25	NM_022453.2	853	ggctgagcgaaccgcatacttca	233358	-	see also 8361 line
38807	RNF25	NM_022453.2	158	gagtcatctatagatgaact	233348	-	see also 8361 line
38808	UBE1	NM_003334.2	2955	accacgtcaccagactataaacc	233406	-	see also 17106 line
38809	UBE1	NM_003334.2	1987	tactgacagagctgtaacagttcc	233392	-	see also 17106 line
38810	UBE1L	NM_003335.2	3036	ggccggatgtgcacctgaaagc	233430	-	see also 17107 line
38811	UBE1L	NM_003335.2	2956	gagtcgctgctggctctcttca	233429	-	see also 17107 line
38812	C18B11	NM_152260.1	829	acctcaggaggtcttatgttgc	233435	-	see also 17108 line
38813	C18B11	NM_152260.1	1042	ttccagagggttaagctacaatgg	233440	-	see also 17108 line
38814	CLONE249	NM_015679.1	40	tgggcttttggggtctataagc	233446	-	see also 17109 line
38815	CLONE249	NM_015679.1	39	atggcttttgcggtctataag	233445	-	see also 17109 line
38816	FLJ14494	NM_032795.1	1066	tgcaacgcctgctgttagagatg	233471	-	see also 17110 line
38817	FLJ14494	NM_032795.1	285	aaggcactgaccgcgagggaattct	233464	-	see also 17110 line
38818	PUS1	NM_025215.3	584	ctcgtcggtaagcgtctattcc	233475	-	see also 17111 line
38819	PUS1	NM_025215.3	587	gtccggtcaggtctgtctctga	233476	-	see also 17111 line
38820	RLUCL	NM_058192.1	837	cgtctgctgctggccctaacaacg	233480	-	-
38821	TRUB1	NM_139169.3	904	accattacgctagaagaacatg	233501	-	see also 17112 line
38822	TRUB1	NM_139169.3	86	gtctctcgcgcgtcttgaaac	233482	-	see also 17112 line
38823	ECH1	NM_001398.1	207	gacgtctgcgcgagaaacatgttc	233508	-	see also 17113 line
38824	ECH1	NM_001398.1	293	tgttagagtgcttcaacaagatt	233510	-	see also 17113 line
38825	ECHS1	NM_004092.2	152	cgcctcgggtgctaaccttgat	233514	-	see also 2760 line
38826	UROS	NM_000375.1	831	ctggtgacaatatcgataaatt	233536	-	see also 17115 line
38827	UROS	NM_000375.1	235	ctgtggccaggatcgtatatac	233526	-	see also 17115 line
38828	ALAD	NM_000031.3	774	tccgggatgacagtaagtcaagc	233544	-	see also 17116 line
38829	ALAD	NM_000031.3	366	gctacgcctgtgtctgtctttt	233539	-	see also 17116 line
38830	ALAD	NM_000031.3	544	ctgcgggctcctggagtgaagc	233540	-	see also 17116 line
38831	FH	NM_000143.2	717	atcaagattggagctactatcac	233566	-	see also 128 line
38832	FH	NM_000143.2	213	aagggtccaaatgataagtatta	233550	-	see also 128 line
38833	CBS	NM_000071.1	812	aagaacgaatccccaattctca	233581	-	see also 45 line
38834	CBS	NM_000071.1	1776	gggtggtaccccgcttgacttg	233583	-	see also 45 line
38835	TGDS	NM_014305.1	415	ttcgtacgtgctttgagtttao	233594	-	see also 17119 line
38836	TGDS	NM_014305.1	452	atggcaactcacgttttgtaagt	233598	-	see also 17119 line
38837	GMDS	NM_001500.1	653	tccgtgagggcgtataatctttt	233630	-	see also 1030 line
38838	GMDS	NM_001500.1	236	tacggcgtccagttcatttao	233616	-	see also 1030 line
38839	FLJ31300	NM_144639.1	1065	tctgcacaacccgttcaatgg	233663	-	see also 17121 line

図46 (続き)

1061

38840	FLJ31300	NM_144639.1	587	ctctcccgagagggatgaga	233656	-	see also 17121 line
38841	PTS	NM_000317.1	260	ccctgctacgggaatggtatga	233681	-	see also 17122 line
38842	PTS	NM_000317.1	128	cagcggagaccaccgattgata	233670	-	see also 17122 line
38843	ODC-p	NM_052998.2	1549	agggcgtgtatgggatctcaac	233697	-	see also 17123 line
38844	ODC-p	NM_052998.2	924	aaccctctgaagcaaatgcaca	233692	-	see also 17123 line
38845	ODG1	NM_002539.1	1540	ggcgaagatctactatgtatgt	233738	-	see also 17124 line
38846	ODG1	NM_002539.1	1539	ggcgaagatctactatgtatgt	233737	-	see also 17124 line
38847	GAD1	NM_000817.1	1095	caggtaactcctgagttttcaac	233748	-	see also 515 line
38848	GAD1	NM_000817.1	1121	ctctccactgagttgattat	233750	-	see also 515 line
38849	GAD2	NM_000818.1	837	gggctctggcgtggatatttt	233786	-	see also 516 line
38850	GAD2	NM_000818.1	1155	cacggtagcggagcaattgacc	233798	-	see also 516 line
38851	UROD	NM_000374.2	136	ggcgttactaccagatttag	233820	-	see also 17127 line
38852	UROD	NM_000374.2	137	ggcgttactaccagatttagg	233821	-	see also 17127 line
38853	UROD	NM_000374.2	268	ttctccacatcctgtgtgacc	233822	-	see also 17127 line
38854	HDC	NM_002112.1	1334	ttcgtctaaagggtctctatgt	233842	-	see also 1361 line
38855	HDC	NM_002112.1	1163	ggcgaagggtctctctgttaa	233834	-	see also 1361 line
38856	HDC	NM_002112.1	1414	ggcactatccaggacaagttaat	233845	-	see also 1361 line
38857	DDC	NM_000790.1	238	atcaacgagcgttgagagataat	233851	-	see also 17129 line
38858	DDC	NM_000790.1	242	acgaagttgaggaataatcatg	233852	-	see also 17129 line
38859	AMD1	NM_001634.3	811	ttccagagagtcgggtaatacgt	233874	-	see also 17130 line
38860	AMD1	NM_001634.3	428	aagatctgagtgaggataacttt	233865	-	see also 17130 line
38861	KIAA0251	NM_015027.1	1501	agctcgtacccgcataagaagc	233882	-	see also 17131 line
38862	KIAA0251	NM_015027.1	2024	ttctccggctcaggctttacaga	233893	-	see also 17131 line
38863	KIAA0251	NM_015027.1	2007	ttcgtctgaattggtttctcc	233892	-	see also 17131 line
38864	SGPL1	NM_003901.2	453	ggccattatgctcgaagattc	233910	-	see also 2657 line
38865	SGPL1	NM_003901.2	1333	cagttcttcgtgacacagattg	233928	-	see also 2657 line
38866	ALDOA	NM_000034.2	1976	ttcgcagggaggagttatgaagc	233945	-	see also 17133 line
38867	ALDOA	NM_000034.2	1720	atgcttgacactcagaagttttc	233943	-	see also 17133 line
38868	ALDOA	NM_000035.2	432	atcgttgagggaatcaagtaga	233947	-	see also 17134 line
38869	ALDOA	NM_000035.2	852	aagtatctccagaacaagtagc	233956	-	see also 17134 line
38870	ALDOA	NM_005165.1	769	atgcctgtcccatcaagtatacc	233969	-	see also 17135 line
38871	ALDOA	NM_005165.1	935	ccgaacctgggcttaccctct	233971	-	see also 17135 line
38872	CGI-26	NM_015954.1	533	atcgaagttggaataaacagaag	233982	-	see also 6588 line
38873	CGI-26	NM_015954.1	755	ggcactttccggtagctatagt	233991	-	see also 6588 line
38874	CGI-26	NM_015954.1	526	tacagaaatgaactggttaatta	233980	-	see also 6588 line
38875	CRY2	NM_021117.1	1381	agcgttccctctcgtacacat	234017	-	see also 8091 line
38876	HMGL	NM_000191.1	130	gtcccgagatggactacaaat	234025	-	see also 158 line
38877	HMGL	NM_000191.1	434	ttgttcataagagagaggtttc	234036	-	see also 158 line
38878	GUCA1A2	NM_000855.1	1534	ctgtctaccocggttgattag	234062	-	see also 17138 line
38879	GUCA1A2	NM_000855.1	2272	ggggtgcgaatgccacgtattg	234072	-	see also 17138 line
38880	GUCA1A3	NM_000856.1	2265	tggcgtgttgagtgtaaatgc	234112	-	see also 17139 line
38881	GUCA1A3	NM_000856.1	712	accagtcggagccagctctct	234081	-	see also 17139 line
38882	GUCA1B2	NM_004129.1	1561	cagttgtcagcagcagctataaag	234152	-	see also 2786 line
38883	GUCA1B2	NM_004129.1	1565	gtgcacgagctctataaagtaga	234153	-	see also 2786 line

38884	GUCYB3	NM_000857.1	1130	ggcagcgcgactgtgtctttt	234195	-	see also 560 line
38885	GUCYB3	NM_000857.1	1129	tgcacgcgcgactgtgtcttt	234194	-	see also 560 line
38886	SAC	NM_018417.2	3130	ttggctcaacgcttagacatg	234296	-	see also 17142 line
38887	SAC	NM_018417.2	4991	agctaatacgcgtggacaatcatt	234335	-	see also 17142 line
38888	CGI-150	NM_016080.2	409	ccggaggagataagttctatt	234341	-	see also 17143 line
38889	CGI-150	NM_016080.2	818	gtcgggagatgaacatttcgaga	234353	-	see also 17143 line
38890	GLO1	NM_006708.1	450	ccctcagagattcggctcatattg	234368	-	see also 17144 line
38891	GLO1	NM_006708.1	246	tgggaatgacgctaattccaaaat	234362	-	see also 17144 line
38892	GLO1	NM_006708.1	359	ggcgctctccagaaaagtaca	234365	-	see also 17144 line
38893	HCCS	NM_005333.1	846	accgttcgggacagaaagttaga	234385	-	see also 17145 line
38894	HCCS	NM_005333.1	366	accggaacgcgcctatgagtac	234375	-	see also 17145 line
38895	HCCS	NM_005333.1	777	caccgaaggcagcaattcgtcc	234382	-	see also 17145 line
38896	CTH	NM_001902.4	305	agcactcgggtttgaatatagc	234401	-	see also 17146 line
38897	CTH	NM_001902.4	1185	tgcctgagctcccggaatcatga	234432	-	see also 17146 line
38898	CTH	NM_001902.4	811	ggcctgtgtctgttaattgtga	234419	-	see also 17146 line
38899	SDS	NM_006843.2	501	aaccgggttggtctacattcc	234439	-	see also 17147 line
38900	SDS	NM_006843.2	282	aagcaaggctgtgcacatttgt	234437	-	see also 17147 line
38901	CRYM	NM_001888.1	402	tgccattgccaccagtttgtga	234444	-	ornithine cyclodeaminase -
38902	CRYM	NM_001888.1	529	tggaaacgcgcaaaagaataatgc	234445	-	see also 38901 line
38903	ASL	NM_000048.2	769	caactagtgaggagactttgtgg	234450	-	see also 17148 line
38904	ASL	NM_000048.2	517	ggcgaaacgtgatgtcttctcc	234447	-	see also 17148 line
38905	ASL	NM_000048.2	719	ctcggagcagaaactcaactttgg	234449	-	see also 17148 line
38906	ADSL	NM_000026.1	1086	ttgtgtgtatccccaagtaatt	234472	-	see also 2 line
38907	ADSL	NM_000026.1	87	gtgttttagcgacaggtataaatt	234454	-	see also 2 line
38908	C20orf3	NM_020531.1	328	accgagtcacatagcacatatgg	234484	-	see also 17150 line
38909	C20orf3	NM_020531.1	530	tacaaggagactatttgaagtaaa	234486	-	see also 17150 line
38910	FLJ10916	NM_018271.2	388	atggcgacacatatgaatttaag	234492	-	see also 17151 line
38911	FLJ10916	NM_018271.2	661	agctcgatgagccgacatcaagact	234496	-	see also 17151 line
38912	LSS	NM_002340.2	1382	tggactcgggtggatcgtttct	234527	-	see also 17152 line
38913	LSS	NM_002340.2	319	cactggagcgggtgattatgtgtgg	234509	-	see also 17152 line
38914	SDS-RS1	NM_138432.2	935	tgcagggttgcaagattcaactct	234537	-	see also 17153 line
38915	SDS-RS1	NM_138432.2	1043	cagccttagcagccactactca	234538	-	see also 17153 line
38916	SRR	NM_021947.1	426	ggctacggagcgtgaattgtata	234547	-	see also 8210 line
38917	SRR	NM_021947.1	425	agcctacggagcgtcaattgtat	234546	-	see also 8210 line
38918	FBXO18	NM_032807.3	1664	gacctcaacgctggtcaagtatg	234588	-	see also 9288 line
38919	FBXO18	NM_032807.3	2123	gactcatgaaggctactgaaac	234599	-	see also 9288 line
38920	FBXO18	NM_032807.3	2272	accgcacacgagatctatacc	234603	-	see also 9288 line
38921	LOC15067	NM_138336.1	455	cggaggcgtatgtttaccaga	234627	-	see also 17156 line
38922	LOC15067	NM_138336.1	631	agcgaagacagcacataatcagt	234636	-	see also 17156 line
38923	PEO1	NM_021830.3	1744	ggcacaagtccactgtatcttc	234660	-	see also 8181 line
38924	PEO1	NM_021830.3	1841	tcagacctaactgtatcttga	234662	-	see also 8181 line
38925	FKBP11	NM_016594.1	497	cactaatccgagcccaactctgg	234675	-	see also 17158 line
38926	FKBP11	NM_016594.1	395	agcgaaggcgcaatcattctctct	234674	-	see also 17158 line

図46 (続き)

1063

38927	KIAA0073	NM_015342.1	1741	atggctaacgaggatcaaatac	234721	-	see also 6383 line
38928	KIAA0073	NM_015342.1	1159	aaccgggtgtgcggatttagg	234712	-	see also 6383 line
38929	PIIB	NM_000942.3	148	gcctctcgaacgcaacatgaag	234734	-	see also 17161 line
38930	PIIB	NM_000942.3	264	gtcacgcgaagggtatttga	234735	-	see also 17161 line
38931	PIIB	NM_000942.3	285	gacctacgaattggagatcaaga	234737	-	see also 17161 line
38932	PIIF	NM_005729.2	446	tactgaacagaaactttacactga	234741	-	see also 17162 line
38933	PIIF	NM_005729.2	603	atggacgtcgtggaagaaataga	234742	-	see also 17162 line
38934	PIIF	NM_005729.2	609	gtcgtgaagaaatagaatcttt	234743	-	see also 17162 line
38935	PIIL1	NM_016059.3	347	ggctcgtcgaagttaactaactga	234746	-	see also 17163 line
38936	PIIL1	NM_016059.3	636	gtgaatcgcgtgggaatggtaga	234751	-	see also 17163 line
38937	PIIL2	NM_014337.2	687	gacccgtcttattatctgaaaaa	234766	-	see also 17164 line
38938	PIIL2	NM_014337.2	685	aggaccgtcttattatctgaaa	234765	-	see also 17164 line
38939	PIIL3	NM_032472.3	676	cagacgtcttaattgatgacaca	234784	-	see also 17165 line
38940	PIIL3	NM_032472.3	590	atgaatacacacgtatttggaaa	234781	-	see also 17165 line
38941	SDCCAG1	NM_005869.1	575	aaggttaacaggggatacagata	234796	-	see also 17166 line
38942	SDCCAG1	NM_005869.1	530	ctgggtcagcagatgaacttaa	234792	-	see also 17166 line
38943	EBP	NM_006579.1	219	ctctgtcacaggggtcttagtcg	234817	-	see also 17167 line
38944	EBP	NM_006579.1	538	cagcatccctcctcgtcttctct	234820	-	see also 17167 line
38945	DCI	NM_001919.1	275	ggacttcocggtgtctattctga	234825	-	see also 17168 line
38946	DCI	NM_001919.1	175	ggctcgtcgtgatgaattcaag	234823	-	see also 17168 line
38947	JPH2	NM_020433.3	1079	ggcatggcgtgggcatagagacc	234827	-	see also 17169 line
38948	GNPDA2	NM_138335.1	179	aactatgacttgcctagtgaatg	234835	-	see also 9600 line
38949	GNPDA2	NM_138335.1	698	gtgccaaacttgctctactct	234850	-	see also 9600 line
38950	RPIA	NM_144563.1	287	aaccactgaggaataaaccagt	234863	-	see also 17170 line
38951	RPIA	NM_144563.1	858	tggacacagggcctattcacaac	234872	-	see also 17170 line
38952	PGDS	NM_014485.1	564	ctgcctcgtcgttaactgataaaa	234892	-	see also 17171 line
38953	PGDS	NM_014485.1	566	ggcgtcgtcgttaactggataaaacg	234894	-	see also 17171 line
38954	PGDS	NM_014485.1	393	tgaagacttggcacatatatta	234888	-	see also 17171 line
38955	PTGIS	NM_000961.2	608	cgtcgtccacgcaccatgaagac	234898	-	see also 17172 line
38956	PTGIS	NM_000961.2	233	agcacgttgacatcttactata	234896	-	see also 17172 line
38957	PMM1	NM_002676.1	79	ggcgtcgtccagaaaattgacc	234907	-	see also 17173 line
38958	PMM1	NM_002676.1	744	tgcagcgtatccggagagatttc	234915	-	see also 17173 line
38959	PMM2	NM_000303.1	478	ttctacgaactcgtataaaaaaga	234935	-	see also 17174 line
38960	PMM2	NM_000303.1	475	gatttctacgaactcgtataaaaa	234934	-	see also 17174 line
38961	PGM3	NM_015599.1	933	ggagacaagatgacacgttaatt	234971	-	see also 6499 line
38962	PGM3	NM_015599.1	472	gactgtctaggagggtcaattcc	234950	-	see also 6499 line
38963	FLJ32029	NM_173582.2	601	gacactcgggtcgaactag	235003	-	see also 17176 line
38964	FLJ32029	NM_173582.2	1840	cgggacgttaccactggataga	235027	-	see also 17176 line
38965	PGM2	NM_018290.1	634	ttggagaagatttctaattgata	235048	-	see also 17177 line
38966	PGM2	NM_018290.1	1335	gggtcagtcgctgtctcaagt	235066	-	see also 17177 line
38967	PGM5	NM_021965.2	1648	ggcgaagacgggatagtttgaat	235096	-	see also 17178 line
38968	PGM5	NM_021965.2	1644	ggctggcgaagacggatagtttt	235094	-	see also 17178 line
38969	PGM5	NM_021965.2	1646	gtggcgaagacgggagatttga	235095	-	see also 17178 line
38970	MUT	NM_000255.1	265	cccggaagggtctctataaac	235107	-	see also 199 line

1064

図 46 (続き)

38971	MUT	NM_000255.1	1873	tgctatcaagagggttcataaat	235153	-	see also 199 line
38972	GALE	NM_000403.2	781	cacaggtgtccgggattacatoc	235176	-	see also 17180 line
38973	GALE	NM_000403.2	884	ggcagggcagcaggcttactaagt	235177	-	see also 17180 line
38974	MCEE	NM_032601.2	377	atctgcatcaggggtgataatat	235187	-	see also 17181 line
38975	MCEE	NM_032601.2	323	gacatccaaattcagattttct	235185	-	see also 17181 line
38976	MCEE	NM_032601.2	325	cagtcacattcaggtttctg	235186	-	see also 17181 line
38977	ISYNA1	NM_016368.3	107	ggccatcagcgcaatacaggt	235191	-	see also 17182 line
38978	ISYNA1	NM_016368.3	580	ctgtttacatccccaattcatc	235192	-	see also 17182 line
38979	EBRP	NM_032565.1	273	atggttgattgcttctttatgg	235202	-	see also 17183 line
38980	EBRP	NM_032565.1	225	aaggccctttgtctactgtot	235200	-	see also 17183 line
38981	REBP	NM_002910.4	1258	tcccgagtagcggggaatggttg	235209	-	see also 17184 line
38982	REBP	NM_002910.4	1005	ttcgagcccaagctgattacaag	235207	-	see also 17184 line
38983	REBP	NM_002910.4	1316	atcaaggagggtccttcaagg	235210	-	see also 17184 line
38984	TOPORS	NM_005802.2	350	ggcgcctcctccgagataatgg	235212	-	see also 4046 line
38985	TOPORS	NM_005802.2	1456	aggtacagttactactctct	235259	-	see also 4046 line
38986	TXND3	NM_022085.2	1292	ggctaccacagcttattgctttt	235328	-	see also 17186 line
38987	TXND3	NM_022085.2	717	ttgcacaaggcagaccactttatc	235320	-	see also 17186 line
38988	101F6	NM_007022.3	662	cctggcgaagctcaagctatc	235333	-	see also 17187 line
38989	101F6	NM_007022.3	350	ggcaaccggtcttattgctttg	235331	-	see also 17187 line
38990	BRE	NM_004899.3	832	ctgtactgtaccctcgaattga	235337	-	see also 3403 line
38991	BRE	NM_004899.3	190	gtggccttgacccgaatatctcc	235335	-	see also 3403 line
38992	HSPC155	NM_016406.1	423	aggaactcgggtgttggaataat	235376	-	see also 17189 line
38993	HSPC155	NM_016406.1	422	aaggaaactcgggtgttggaataa	235375	-	see also 17189 line
38994	HSPC155	NM_016406.1	591	gacggatcattcaaacctttg	235381	-	see also 17189 line
38995	MGC42638	NM_178567.2	574	caccacaagatacaaatccaac	235382	-	-
38996	NEDD8	NM_006156.1	263	cagcagctgattacaagatttta	235386	-	see also 17190 line
38997	NEDD8	NM_006156.1	123	gaccggaagaggagattgagattg	235383	-	see also 17190 line
38998	NEDD8	NM_006156.1	264	agcagctgattacaagattttag	235387	-	see also 17190 line
38999	UBE1C	NM_003968.3	1268	gtcggtaacctctattgagaac	235434	-	see also 2703 line
39000	UBE1C	NM_003968.3	1057	atgatgtagtgggtctgtatca	235425	-	see also 2703 line
39001	UBE4A	NM_004788.2	541	ctcttgctcgtcttacttactca	235458	-	see also 3309 line
39002	UBE4A	NM_004788.2	2381	accgcggtcccatgtatcctatc	235514	-	see also 3309 line
39003	UBE4A	NM_004788.2	544	ttcgctcgtcttacttactcaaga	235459	-	see also 3309 line
39004	SAE1	NM_005500.1	750	cacgacctcgcactacttctcc	235550	-	see also 17193 line
39005	SAE1	NM_005500.1	275	ggactcagttcttggcttctact	235543	-	see also 17193 line
39006	APG7L	NM_006395.1	1844	agcagtgacgatcggaatgaatga	235608	-	see also 17194 line
39007	APG7L	NM_006395.1	1782	tgccggtggaattgatgatctct	235605	-	see also 17194 line
39008	UBA2	NM_005499.1	275	taccogaagctatctatctgttc	235626	-	see also 3839 line
39009	UBA2	NM_005499.1	159	acctgattgcttgatactatt	235622	-	see also 3839 line
39010	UBA2	NM_005499.1	267	tgcaagttttaccggaagctaat	235625	-	see also 3839 line
39011	ABHD2	NM_007011.4	1293	cagcctgggtggttaactattgt	235711	-	see also 17196 line
39012	ABHD2	NM_007011.4	1112	tcgttgactacgccacagaaaaat	235706	-	see also 17196 line
39013	ABHD3	NM_138340.3	941	aagcaccagacatatgtttgtaa	235745	-	see also 9602 line
39014	ACP33	NM_016630.2	817	ttcgggacatactctgaactatt	235774	-	see also 17198 line

図 46 (続き)

1065

39015	ACP33	NM_016630.2	818	tcggacatacctgtactatta	235775	-	see also 17198 line
39016	APPBP1	NM_003905.2	1241	gtgttaagatgtcgatccttagc	235812	-	see also 2661 line
39017	BAT5	NM_021160.1	156	ctcctggatagctactatcagc	235828	-	see also 8113 line
39018	BG1	NM_015162.3	2045	ggggatccgggggtcaacatga	235859	-	see also 17201 line
39019	BG1	NM_015162.3	365	caatgtatcctggatgttctacg	235843	-	see also 17201 line
39020	BGR	NM_030924.2	1857	atcagtaacgccatgttagtagg	235882	-	see also 17202 line
39021	BGR	NM_030924.2	1526	cagcatatccaacaccagaataact	235884	-	see also 17202 line
39022	BGR	NM_030924.2	1347	agctaccatcgttgtagaactct	235880	-	see also 17202 line
39023	BUCS1	NM_052956.1	663	ttcagatcgtgtgttaaacagc	235916	-	see also 17203 line
39024	BUCS1	NM_052956.1	1011	tggggggtgcatcatatatac	235928	-	see also 17203 line
39025	C12orf5	NM_020375.1	657	gtcacgggtgtacatgagaagt	235947	-	see also 17204 line
39026	C12orf5	NM_020375.1	617	agcggattccaggattagcagc	235946	-	see also 17204 line
39027	C12orf5	NM_020375.1	614	gacagcgtgtatccaggattagc	235945	-	see also 17204 line
39028	C20orf135	NM_080622.1	879	caccgtgcgcggagcacttcaacc	235955	-	see also 17205 line
39029	C20orf135	NM_080622.1	447	cggcaacgagatcgacactatgt	235953	-	see also 17205 line
39030	C20orf22	NM_015600.2	868	caatggcgtgtgagcaaatctgg	235967	-	see also 6501 line
39031	C20orf22	NM_015600.2	866	ggcactgcgtggcgacaaatct	235966	-	see also 6501 line
39032	C20orf22	NM_015600.2	985	ttcagtgatatatcgatacttcc	235975	-	see also 6501 line
39033	C21orf106	NM_015151.1	2155	gtcagatgaacggcttaagtattg	236007	-	see also 17207 line
39034	C21orf106	NM_015151.1	3511	ccccgatgtctcgacatactgg	236018	-	see also 17207 line
39035	C5orf4	NM_016348.1	1268	tccctgattgcacatacaaatgg	236026	-	see also 17208 line
39036	C5orf4	NM_016348.1	1296	ttcggccacacgcgcctaatgatg	236027	-	see also 17208 line
39037	CGI-111	NM_016048.1	692	ccgaggagtcaggttcacattg	236056	-	see also 17209 line
39038	CGI-111	NM_016048.1	619	ggatgaaggatgtgtattattt	236053	-	see also 17209 line
39039	CGI-67	NM_016014.1	637	gactaggtatccggattaattgt	236071	-	see also 6615 line
39040	CGI-67	NM_016014.1	554	ttgttccccaatgcgaataaca	236067	-	see also 6615 line
39041	CTMP	NM_053055.2	136	cccgagctgaggtcattttcttc	236083	-	see also 17211 line
39042	CTMP	NM_053055.2	291	acctactgaatggtattcaagact	236085	-	see also 17211 line
39043	DKFZP434	NM_015527.2	1802	ccgggaaggacgacttactttga	236096	-	see also 6448 line
39044	DKFZP566	NM_031208.1	588	gggaggttggaccgggttaagaaa	236099	-	see also 17212 line
39045	DKFZP566	NM_031208.1	590	gggttggaccgggttaagaaaaac	236100	-	see also 17212 line
39046	ECHDC1	NM_018479.1	797	caccggcttagttgaaataatcg	236118	-	see also 17213 line
39047	ECHDC1	NM_018479.1	795	accacccggcttagttgaaataat	236117	-	see also 17213 line
39048	ECHDC1	NM_018479.1	970	aaggccaccgggaagtaattaga	236124	-	see also 17213 line
39049	ECHDC3	NM_024693.2	727	acgtcgggctcttctgtttctacc	236135	-	see also 17214 line
39050	ECHDC3	NM_024693.2	455	cagcaacgatctgaagatcatta	236132	-	see also 17214 line
39051	FA2H	NM_024306.2	657	tccgactcttcacgtcattaca	236139	-	see also 17215 line
39052	FA2H	NM_024306.2	656	gtccgactcttcacgtcattac	236138	-	see also 17215 line
39053	FA2H	NM_024306.2	662	ctcttcaactgattacaacaga	236140	-	see also 17215 line
39054	FHL5	NM_020482.3	670	ctgtgcacggaggtctattctaa	236153	-	see also 17216 line
39055	FHL5	NM_020482.3	672	gtgcacggaggtctattctaacg	236154	-	see also 17216 line

図46 (続き)

1066

39056	FLJ10925	NM_018275.3	192	gtgcactactcgtgacttcc	236165	-	see also 7361 line
39057	FLJ10925	NM_018275.3	642	caacgtttcactgtagactgc	236167	-	see also 7361 line
39058	FLJ10948	NM_018281.1	672	gocgtgcgctgggcaagtagc	236178	-	see also 17217 line
39059	FLJ10948	NM_018281.1	810	aagcgaactcccaaatgttgg	236180	-	see also 17217 line
39060	FLJ12377	NM_024989.1	297	tccgcataatgagtgtatcttt	236189	-	see also 17218 line
39061	FLJ12377	NM_024989.1	298	ccgcataatgagtgtatcttta	236190	-	see also 17218 line
39062	FLJ14906	NM_032859.1	416	ttcttcogactcgttacccttc	236264	-	see also 17219 line
39063	FLJ14906	NM_032859.1	421	tccgatgcgttaactcttcttat	236265	-	see also 17219 line
39064	FLJ20581	NM_017888.2	1338	accctacagatgcagatgtgg	236284	-	see also 17220 line
39065	FLJ20581	NM_017888.2	815	accgcctggccactacttacc	236283	-	see also 17220 line
39066	FLJ20581	NM_017888.2	814	gaaccgctggccactacttacc	236282	-	see also 17220 line
39067	FLJ20920	NM_025149.2	1553	gcgcctctaaagatatgacac	236297	-	see also 17221 line
39068	FLJ20920	NM_025149.2	1779	tccgaagtacatcgtgtgttca	236302	-	see also 17221 line
39069	FLJ21820	NM_021925.1	631	accgtgtcctgagacaatcaagt	236326	-	see also 17222 line
39070	FLJ21820	NM_021925.1	850	ttgggtccaaagagtagactatg	236334	-	see also 17222 line
39071	FLJ21963	NM_024560.2	437	gcggttgatcgtatattgaaaa	236348	-	see also 8643 line
39072	FLJ21963	NM_024560.2	1749	ctcgatggatgagtgaataaat	236387	-	see also 8643 line
39073	FLJ21963	NM_024560.2	436	tgccgttgatcgtcatattgaaa	236347	-	see also 8643 line
39074	FLJ23469	NM_024710.1	480	attctggaccocccgttcttacc	236398	-	-
39075	FLJ23469	NM_024710.1	698	tgccgtccaccccccactcaagg	236399	-	see also 39074 line
39076	FLJ25449	NM_144714.1	368	accacattaccctgttccatag	236401	-	see also 17224 line
39077	FLJ25449	NM_144714.1	1123	tgacgttactgttatattggaag	236423	-	see also 17224 line
39078	FLJ32332	NM_144641.1	708	cagcagctggccttgcctatcc	236427	-	see also 17225 line
39079	FLJ37964	NM_182578.1	329	tgtctgagcctgtaccagaattt	236429	-	see also 17226 line
39080	FLJ37964	NM_182578.1	761	aggacacagagcttcaatgtcc	236433	-	see also 17226 line
39081	FLJ40125	NM_178494.2	555	cgcgagcgttggcggaacttacc	236435	-	see also 17227 line
39082	FLJ40125	NM_178494.2	559	agcgttggcggaacttaccacac	236437	-	see also 17227 line
39083	FLJ40773	NM_152666.1	842	ggcgcgaggtgacgtacatgaac	236450	-	see also 17228 line
39084	FLJ40773	NM_152666.1	1397	ctgaccccttactgttaacttt	236473	-	see also 17228 line
39085	GAF1	NM_015470.1	1783	ggcaaggagcccgactcagaaacc	236493	-	see also 17229 line
39086	GAF1	NM_015470.1	1742	gggagaaagggccagagtagc	236492	-	see also 17229 line
39087	GENX-	NM_003943.1	167	ctggccggagcactttctgttg	236496	-	see also 17230 line
39088	GENX-	NM_003943.1	904	agggtctcagcaagtagtgtca	236507	-	see also 17230 line
39089	GNPH	NM_020806.3	2129	accatcgggtataactaactgg	236570	-	see also 7978 line
39090	GNPH	NM_020806.3	1731	cacgatcaacttgggtattgtag	236555	-	see also 7978 line
39091	GNPH	NM_020806.3	1328	ggcaagtcacggggtttacaaca	236539	-	see also 7978 line
39092	GPR56	NM_005682.3	234	ggggccacagggagagacttgc	236573	-	see also 17232 line
39093	GPR56	NM_005682.3	1193	atgtgtcttctgggttgaagacc	236576	-	see also 17232 line
39094	HSR5BE	NM_017512.1	1168	atccgggctactcaacagaaatg	236596	-	see also 17233 line
39095	TA	NM_017512.1	1169	tcccggtactcaacagaaatga	236597	-	see also 17233 line
39096	KIAA1463	NM_020849.1	1351	ctgcccactgtccgaatgattg	236622	-	see also 7993 line
39097	KIAA1463	NM_020849.1	1285	tgcctgtatgcgggctgtatacc	236620	-	see also 7993 line

図 46 (続き)

1067

39098	KIAA1959	NM_032873.2	1057	ctcggatataccgatttctaacc	236657	-	see also 9329 line
39099	KIAA1959	NM_032873.2	1608	ttccgagattacgagaaagatgc	236676	-	see also 9329 line
39100	LPH	NM_139248.1	535	tacatgatcggagtagtctagg	236699	-	see also 17236 line
39101	LPH	NM_139248.1	936	cagctgcgacagctcacaagaag	236707	-	see also 17236 line
39102	LOC12261	NM_138790.1	1430	ctccaaactggctcggagattact	236732	-	see also 17237 line
39103	LOC12261	NM_138790.1	829	agcttgccgctgctcatctataac	236725	-	see also 17237 line
39104	LOC19732	NM_174917.1	565	tccttctatgcgctaacagatgc	236734	-	see also 17238 line
39105	LOC19732	NM_174917.1	466	cacacgtacagggagctttatttc	236733	-	see also 17238 line
39106	LOC19732	NM_174917.1	1200	ggccagacccagggattttctgc	236738	-	see also 17238 line
39107	LOC20116	NM_178836.2	606	gacgagtagctgcggctttttct	236745	-	-
39108	LOC20116	NM_178836.2	660	aacctacaaaagtataccttttt	236747	-	see also 39107 line
39109	LOC20116	NM_178836.2	662	cctacaaagtatacctttttcc	236749	-	see also 39107 line
39110	LOC33081	NM_138779.2	764	gacggctgcacaaatgatgttctc	236764	-	see also 17239 line
39111	LOC33081	NM_138779.2	757	gtgaaaggacggctgcacaaatga	236762	-	see also 17239 line
39112	LYPAL1	NM_138794.1	609	gtgacacagagtttcatagtgtt	236785	-	see also 17240 line
39113	LYPAL1	NM_138794.1	227	aggaatctccaatgatgtgtgtt	236771	-	see also 17240 line
39114	MCOLN1	NM_020533.1	244	accttcgctcgtctcgaataac	236792	-	see also 17241 line
39115	MCOLN1	NM_020533.1	247	ttcgcgctgctcgaataactttt	236793	-	see also 17241 line
39116	MCOLN1	NM_020533.1	248	tcgcgctgctcgaataactttt	236794	-	see also 17241 line
39117	MGC15429	NM_032750.1	725	gactccagctctgattgtatatg	236816	-	see also 17242 line
39118	MGC15429	NM_032750.1	677	ccccatctgcactgacaaatca	236814	-	see also 17242 line
39119	MGC19531	NM_005167.4	2001	ttccctgagtagcaggtgtatga	236824	-	see also 3635 line
39120	MGC19531	NM_005167.4	2003	cctgagtagcaggtgtatgaac	236825	-	see also 3635 line
39121	MGC19531	NM_005167.4	2132	gtcggcctatgagcctaatagaac	236828	-	see also 3635 line
39122	MGC5352	NM_138575.1	757	ctgttctcgcctggggatttgt	236837	-	see also 17244 line
39123	MGC5352	NM_138575.1	599	agccggaagctgtcagatttac	236836	-	see also 17244 line
39124	MOC52	NM_004531.3	618	tggtagaataatcctctattgtag	236841	-	see also 3087 line
39125	MOC52	NM_004531.3	608	ctcgcctctgtgtgtgcaatacc	236840	-	see also 3087 line
39126	NDRG1	NM_006096.2	567	gcctacatcttaactcagattgc	236862	-	see also 17246 line
39127	NDRG1	NM_006096.2	559	gagcaggcgcctacatcctaact	236861	-	see also 17246 line
39128	NDRG3	NM_022477.2	165	gtgtgtccacgtcactataaga	236868	-	see also 8401 line
39129	NDRG3	NM_022477.2	919	gggactgcgccaggtagttcagc	236884	-	see also 8401 line
39130	NLGN4	NM_020742.2	506	caccocggctcgtcgtctgttaa	236887	-	-
39131	NLGN4	NM_020742.2	508	ccccgctcgtcgtcgtcgttaa	236888	-	see also 39130 line
39132	NRXN3	NM_004796.2	3550	tggagagagacgcgggaactacac	236934	-	see also 3329 line
39133	NRXN3	NM_004796.2	3006	ttcaacactcaagcggcaaatagc	236922	-	see also 3329 line
39134	OAZIN	NM_015878.3	1432	ttcacgggaactgaatttcaatt	236971	-	see also 6548 line
39135	PGS1	NM_024419.2	1426	cgtctgttgcctcctcctaattt	237000	-	see also 17249 line
39136	PGS1	NM_024419.2	1055	ggccttcgagattcaaatogattg	236996	-	see also 17249 line
39137	PIGB	NM_004855.3	330	accgctccacagcgaagataaag	237003	-	see also 17250 line
39138	PIGB	NM_004855.3	1261	gagataccggatctctttgttga	237034	-	see also 17250 line
39139	PIGB	NM_004855.3	1832	cacttgcagagaggatgaattgg	237045	-	see also 17250 line
39140	PLEKHE1	NM_194449.1	564	cagtggaacctctcgtttgttagc	237062	-	see also 10309 line
39141	PLEKHE1	NM_194449.1	1077	tggatctaagggttgaactgaatt	237074	-	see also 10309 line

autism(自闭症)

1068

図46 (続き)

39142	PME-1	NM_016147.1	688	ttcttaaggagggtgctctaaac	237142	-	see also 6695 line
39143	PME-1	NM_016147.1	1004	tcaggagcttatcaactcttt	237152	-	see also 6695 line
39144	PNPLA1	NM_173676.1	512	tcacgacttcgcgcatgtcaac	237161	-	see also 17253 line
39145	PNPLA1	NM_173676.1	1336	accgtcagcaagccctatgaac	237174	-	see also 17253 line
39146	PNPLA1	NM_173676.1	627	agggtacagagatcagtttgt	237165	-	see also 17253 line
39147	PPM1L	NM_139245.1	581	tgggagattatccgctgaanaat	237184	-	see also 9682 line
39148	PPM1L	NM_139245.1	583	gggagattatccgctgaanaatct	237186	-	see also 9682 line
39149	SAH	NM_005622.1	185	cagcgcttacgaatttttggttc	237200	-	see also 3901 line
39150	SAH	NM_005622.1	1418	tacgcttacccccctataaact	237238	-	see also 3901 line
39151	SERAC1	NM_032861.2	1005	ggagctgtaccgaacttcacaagg	237261	-	see also 17256 line
39152	SERAC1	NM_032861.2	2005	ttgtaccagctacttaacaatt	237289	-	see also 17256 line
39153	SLC27A3	NM_024330.1	1575	ttctcttgattcgctatgtgt	237302	-	see also 17257 line
39154	SLC27A3	NM_024330.1	1577	ctcttgattcgctatgtgca	237303	-	see also 17257 line
39155	SLC27A4	NM_005094.2	2121	gacccgtgtctctatctatgac	237326	-	see also 17258 line
39156	SLC27A4	NM_005094.2	1234	cccggttctggagcagattgtac	237317	-	see also 17258 line
39157	SLC27A4	NM_005094.2	426	acatcagcgcgatattcttgg	237310	-	see also 17258 line
39158	TA-PP2C	NM_139283.1	522	ggagacgtgtgaacgttttagtaa	237331	-	see also 9687 line
39159	TA-PP2C	NM_139283.1	549	aggacggttctgactcctagtaac	237335	-	see also 9687 line
39160	TA-WDRP	NM_139281.1	1548	atctacaataggcgcttaatttc	237392	-	see also 9686 line
39161	TA-WDRP	NM_139281.1	1119	agcaattccggaactagacatttc	237370	-	see also 9686 line
39162	TA-WDRP	NM_139281.1	307	cgacagcgagcgcgcttttgc	237349	-	see also 9686 line
39163	TTS-2.2	NM_020376.2	565	gtcagcagcgaggaatgtcatta	237434	-	see also 17261 line
39164	TTS-2.2	NM_020376.2	720	tgcactatgagcttaagaac	237437	-	see also 17261 line
39165	UBASH3A	NM_018961.1	1766	ggacaggggtgtcctcctaattgt	237463	-	see also 17262 line
39166	UBASH3A	NM_018961.1	1768	caagggtgtcctcctaattgtga	237464	-	see also 17262 line
39167	UBASH3A	NM_018961.1	1726	caaggcgagcatggcgcaaatcg	237461	-	see also 17262 line
39168	UPP2	NM_173355.2	814	ccctgttggacatacaaatgtgt	237488	-	see also 10065 line
39169	UPP2	NM_173355.2	812	aaccctgttggaacatacaatgt	237487	-	see also 10065 line
39170	UPP2	NM_173355.2	599	gtgtgtgagtgaccattattia	237481	-	see also 10065 line
39171	UXS1	NM_025076.1	1151	tacgtcagcgatctagtgaatgg	237501	-	see also 17264 line
39172	UXS1	NM_025076.1	1431	aactcgagtaaccagcaaatat	237507	-	see also 17264 line
39173	HTR1B	NM_000863.1	460	ggcgtgggagtgactcagctaaag	237516	-	see also 17265 line
39174	HTR1B	NM_000863.1	792	gtctcgtgtcacctctcttaaat	237523	-	see also 17265 line
39175	HTR1B	NM_000863.1	702	agcccgctcccgattttgaac	237520	-	see also 17265 line
39176	HTR1D	NM_000864.3	1364	ccctggaaacgcaagagatttct	237530	-	see also 17266 line
39177	HTR1D	NM_000864.3	686	tactcaacacatcttactcacc	237528	-	see also 17266 line
39178	HTR1E	NM_000865.1	1588	ctctctctatagagattttta	237551	-	see also 17267 line
39179	HTR1E	NM_000865.1	1590	ctgctctatagagattttta	237552	-	see also 17267 line
39180	HTR1E	NM_000865.1	1362	ccccctctgacaatgatctaga	237544	-	see also 17267 line
39181	HTR1F	NM_000866.1	644	ggacaagcagtaggttgcaaaag	237574	-	see also 561 line
39182	HTR1F	NM_000866.1	723	ttcacatctctatgtactagaaa	237576	-	see also 561 line
39183	HTR2A	NM_000621.1	1520	gacaatagcagcaggaatga	237630	-	see also 17269 line
39184	HTR2A	NM_000621.1	184	aactacgaactccctaatgcaat	237591	-	see also 17269 line
39185	HTR2C	NM_000868.1	2077	tgtgttagcgaagagattagcagt	237683	-	see also 563 line

1069

39186	HTR2C	NM_000868.1	2074	gtgtgggttagcgaaaggattagc	237682	-	see also 563 line
39187	HTR4	NM_000870.2	541	ccctctgcgcatacgcatatg	237690	-	see also 565 line
39188	HTR4	NM_000870.2	542	ccctctgcgcatacgcatatgc	237691	-	see also 565 line
39189	HTR5A	NM_024012.1	108	ctcggctctcggagtgcttatic	237709	-	see also 17272 line
39190	HTR5A	NM_024012.1	1039	agcgcttcaagaactcttttctt	237711	-	see also 17272 line
39191	HTR7	NM_000872.3	947	aggacttggctatcacgattac	237718	-	see also 17273 line
39192	HTR7	NM_000872.3	944	ggcaggacttggctatcacgatt	237716	-	see also 17273 line
39193	ADRA2A	NM_000681.2	2090	cagcgacgctctcaaatcttc	237730	-	see also 17274 line
39194	ADRA2A	NM_000681.2	2088	ggcagcgacgctctcaaatctt	237729	-	see also 17274 line
39195	ADRA2B	NM_000682.3	1036	ggcaggggcggtgggtgctatagg	237733	-	see also 17275 line
39196	ADRA2B	NM_000682.3	522	ggcctccagcatcgaggtctttct	237731	-	see also 17275 line
						gpcr,	
						receptor_activity,	
						kinase_related,	
						alpha2-adrenergic	-
						receptor	
39197	ADRA2C	NM_000683.2	1277	cgctcgatgtcgtgttttgcaac	237735	-	see also 17276 line
39198	ADRA1A	NM_000680.1	1562	cgcatcccggtggatcaagaga	237741	-	see also 17276 line
39199	ADRA1A	NM_000680.1	490	ggcaocggtgaaacatttccaagg	237737	-	see also 17276 line
39200	ADRA1B	NM_000679.2	813	ccctctggcggctcaattctagtca	237750	-	see also 426 line
39201	ADRA1B	NM_000679.2	819	ggcggctcattctagtctgtact	237751	-	see also 426 line
39202	ADRA1D	NM_000678.2	1754	acctacggggagaccgatatttaa	237764	-	see also 17278 line
39203	ADRA1D	NM_000678.2	1056	ctcgtgscgctctcaagtctt	237759	-	see also 17278 line
39204	ADRA1D	NM_000678.2	1191	ggcatcggaggggcgcttccaagg	237761	-	see also 17278 line
39205	ADRB2	NM_000024.3	1400	tgcctagcgataacattgattcca	237776	-	see also 17279 line
39206	ADRB2	NM_000024.3	1405	agcgataacattgattcacaaagg	237777	-	see also 17279 line
39207	ADRB2	NM_000024.3	1121	acctcatcgttaaggaaagtttac	237771	-	see also 17279 line
39208	ADRB3	NM_000025.1	1185	ggcctgaactggctaggattatgc	237782	-	gpcr,
39209	HRH1	NM_000861.2	409	tgcctgtcgtatgccatgaaca	237784	-	receptor_activity
39210	HRH1	NM_000861.2	846	accggagagctcataatagatcc	237790	-	see also 17280 line
39211	HRH1	NM_000861.2	1363	ctcgcattcaagcacagatgtat	237798	-	see also 17280 line
39212	HRH2	NM_022304.1	671	tccgcaacctgaccgaattgttc	237803	-	see also 17281 line
39213	HRH2	NM_022304.1	1450	aaccgcaacctcccacaaacttc	237812	-	see also 17281 line
39214	HRH3	NM_007232.1	1484	tccctgactactgtagcgaacc	237818	-	see also 17282 line
39215	HRH3	NM_007232.1	864	atcgcgagttcttctacaactgg	237816	-	see also 17282 line
39216	HRH4	NM_021624.2	137	agcactcgtgttacttttagcatt	237821	-	see also 17283 line
39217	HRH4	NM_021624.2	1178	tgtgtcaacaagcgcgtttcaaaa	237847	-	see also 17283 line
39218	HRH4	NM_021624.2	132	cactaagcactcgtgtacttta	237820	-	see also 17283 line
39219	HTR6	NM_000871.1	1064	ggcctcgggtggccatgtcttca	237853	-	see also 17284 line
39220	HTR6	NM_000871.1	1063	tgcctcgggtggccatatgcttc	237852	-	see also 17284 line
39221	DRD1	NM_000794.2	1778	tgcocatagagacgggtgagtcca	237877	-	see also 17285 line
39222	DRD1	NM_000794.2	1787	gacggtgagtatacataaactg	237879	-	see also 17285 line
39223	DRD2	NM_000795.2	519	cacgcgcgagcatcctgaacttgt	237886	-	see also 490 line
39224	DRD2	NM_000795.2	521	cggcgcagcatcctgaacttgt	237887	-	see also 490 line
39225	DRD3	NM_000796.2	790	ttctgtttgggttaataaccaca	237903	-	see also 491 line

1070

図46 (続き)

39226	DRD3	NM_000796.2	629	tacagccagcatcctaattct	237901	-	see also 491 line
39227	DRD5	NM_000798.3	716	atcgaaacctacgccattcttc	237918	-	see also 17288 line
39228	DRD5	NM_000798.3	300	ggccgttgtagaacctttctgtg	237916	-	see also 17288 line
39229	OR1A1	NM_014565.1	775	ttccgccctttgacccaattag	237927	-	see also 17289 line
39230	OR1A1	NM_014565.1	776	tcgccctttgacccaattatagc	237928	-	see also 17289 line
39231	OR1A2	NM_012352.1	756	tacaacgatggcgatgtattcc	237941	-	see also 17290 line
39232	OR1A2	NM_012352.1	680	ttccatctaacagagctatttc	237939	-	see also 17290 line
39233	OR1A2	NM_012352.1	602	taggggttcggcggtttctcttg	237937	-	see also 17290 line
39234	OR1D2	NM_002548.1	504	ctgtgggtcacgaaaaaacact	237950	-	see also 17291 line
39235	OR1D2	NM_002548.1	756	tgggaacattttagtggtatacc	237956	-	see also 17291 line
39236	OR1D5	NM_014566.1	645	cacatctctatgtacgtattgca	331776	-	see also 17292 line
39237	OR1D5	NM_014566.1	642	gaccaatctctatgtacgtattg	331774	-	see also 17292 line
39238	OR1D5	NM_014566.1	643	accacatctctatgtacgtattg	331775	-	see also 17292 line
39239	OR1E1	NM_003553.1	898	ggcctgagcagagtcattcatca	237963	-	receptor activity, signal transduction, gpcr
39240	OR1E1	NM_003553.1	897	ggcctgagcagagtcattcatca	237962	-	see also 39239 line
39241	OR1E1	NM_003553.1	234	ttcccaagttgttacagaacatgc	237961	-	see also 39239 line
39242	OR1G1	NM_003555.1	282	ctcagggtgtctactacagtgt	237968	-	see also 17293 line
39243	OR1G1	NM_003555.1	277	tcctactcaggggtgtactactaca	237967	-	see also 17293 line
39244	OR2C1	NM_012368.1	701	ggcgaaagcggttaactacgtgc	237984	-	see also 17294 line
39245	OR2C1	NM_012368.1	209	acottgtctctactactgttca	237978	-	see also 17294 line
39246	OR3A1	NM_002550.1	633	taccoccatgctctactgttca	237987	-	see also 17295 line
39247	OR3A1	NM_002550.1	791	gactgggttcaaccacagctttca	237988	-	see also 17295 line
39248	OR5B4	NM_033179.1	558	tgctgatatcagcttttaattaca	238004	-	see also 17296 line
39249	OR5B4	NM_033179.1	840	ttctccattctgtaactctatca	238010	-	see also 17296 line
39250	OR5B4	NM_033179.1	839	ttctccattctgtaactctatc	238009	-	see also 17296 line
39251	OR5E2	NM_030774.2	859	ggcggtgagcagtaattgtcatct	238022	-	see also 17297 line
39252	OR5E2	NM_030774.2	684	tggtccggcgatccctcttttt	238018	-	see also 17297 line
39253	OR7A5	NM_017506.1	807	atcaaatgggtgatattttaca	238029	-	see also 17298 line
39254	OR7A5	NM_017506.1	1147	aacaatgaaaggcaatttttca	238030	-	see also 17298 line
39255	OR7G1	NM_198944.1	51	ttcagcaacgctcagagattcagt	238032	-	see also 17299 line
39256	OR7G1	NM_198944.1	498	gtccttctgcaccgcaaatggaaa	238039	-	see also 17299 line
39257	OR8B8	NM_012378.1	187	ctctataacttctcttcacaga	238046	-	see also 17300 line
39258	OR8B8	NM_012378.1	16	tcctccttctgacacagtttat	238045	-	see also 17300 line
39259	TAS2R1	NM_019599.1	292	tggctggcggtttctattgtgc	238061	-	see also 17301 line
39260	TAS2R1	NM_019599.1	607	aggcacaccggcaaatggaaa	238071	-	see also 17301 line
39261	TAS2R10	NM_023921.1	225	tgcctcgggttaacctaatggaat	238086	-	see also 17302 line
39262	TAS2R10	NM_023921.1	226	gctcccggttaacctaatggaat	238087	-	see also 17302 line
39263	TAS2R10	NM_023921.1	142	accggcttagctatttcaagaat	238080	-	see also 17302 line
39264	TAS2R13	NM_023920.1	532	tcggtaaatctactatgactat	238132	-	see also 17303 line
39265	TAS2R13	NM_023920.1	66	gagcaatggatttatgtactga	238113	-	see also 17303 line
39266	TAS2R14	NM_023922.1	297	agctacagggctcgggtactttt	238142	-	see also 17304 line
39267	TAS2R14	NM_023922.1	434	ttgcactgataaacatccatata	238149	-	see also 17304 line

図46 (続き)

1071

39268	TAS2R16	NM_016945.1	539	ctctacacgttcgattgatt	238175	-	see also 17305 line
39269	TAS2R16	NM_016945.1	837	cagccctacgttgaaaggattc	238181	-	see also 17305 line
39270	TAS2R3	NM_016943.1	378	tcttagggatggatgac	238192	-	see also 17306 line
39271	TAS2R3	NM_016943.1	924	tgatccaaggagaccatttct	238204	-	see also 17306 line
39272	TAS2R4	NM_016944.1	102	ttgggtcaaaagccatagaattc	238206	-	see also 17307 line
39273	TAS2R4	NM_016944.1	599	tacactccttgaggagacatata	238213	-	see also 17307 line
39274	TAS2R5	NM_018980.1	224	gocgttgcttcgtctatgt	238228	-	see also 17308 line
39275	TAS2R5	NM_018980.1	223	agccgttgcttcgtctatgt	238227	-	see also 17308 line
39276	TAS2R7	NM_023919.1	807	tggtgagtcgaatgctctatct	238262	-	see also 17309 line
39277	TAS2R7	NM_023919.1	778	atgcagagagcgggaattgctgt	238260	-	see also 17309 line
39278	TAS2R8	NM_023918.1	757	ttgatgacctttagctatctat	238294	-	see also 17310 line
39279	TAS2R8	NM_023918.1	432	cagccttatagcagcaatagtag	238282	-	see also 17310 line
39280	TAS2R9	NM_023917.1	787	gtgttgatgattggtagcatagt	238315	-	see also 17311 line
39281	TAS2R9	NM_023917.1	793	atgatgggtgacatagtaactgt	238317	-	see also 17311 line
39282	ELOVL4	NM_022726.2	247	gocggtagtgctctaaacgttag	238319	-	see also 17312 line
39283	ELOVL4	NM_022726.2	450	tgctcttagtgctcatctatctat	238328	-	see also 17312 line
39284	OPN1SW	NM_001708.1	591	acgcgaagcaggtcctatactg	238372	-	see also 17313 line
39285	OPN1SW	NM_001708.1	471	tgcttacttggaacattggtatt	238370	-	see also 17313 line
39286	OPN3	NM_014322.1	909	tgcttacttccaaatatactatt	238389	-	see also 17314 line
39287	OPN3	NM_014322.1	327	ccctcttgggggtcaacttacc	238377	-	see also 17314 line
39288	OPN4	NM_033282.1	561	ggagacagggtcgaggttctatgc	238401	-	see also 17315 line
39289	OPN4	NM_033282.1	527	caccagtagcctctataagcagt	238400	-	see also 17315 line
39290	RDS	NM_000322.2	1057	ctcttcgagtgaccattacaat	238417	-	see also 17316 line
39291	RDS	NM_000322.2	382	agcggatgtagtaattctga	238405	-	see also 17316 line
39292	RHO	NM_000539.2	650	ctcgttggaatcgactactaca	238424	-	see also 406 line
39293	RHO	NM_000539.2	684	ggaggtcaacaacaggtctttgt	238425	-	see also 406 line
39294	ROM1	NM_000327.2	640	ggcgccacacgggtacaaaggattgg	238431	-	see also 17318 line
39295	ROM1	NM_000327.2	645	caagggtacaaggattggttgg	238432	-	see also 17318 line
39296	PTGER2	NM_000956.2	1018	aacctcttcccgaaaggaaat	238449	-	see also 17320 line
39297	PTGER2	NM_000956.2	986	ttgcctttcacgatttttgcata	238445	-	see also 17320 line
39298	PTGER2	NM_000956.2	987	tgctttcacgatttttgcatat	238446	-	see also 17320 line
39299	PTGER3	NM_000957.2	896	cgcataaactggggcaaacctttc	238455	-	see also 17321 line
39300	PTGER3	NM_000957.2	651	cgggctctcctcgtttgtcatcg	238453	-	see also 17321 line
39301	PTGER4	NM_000958.2	1450	ccgcctcgttgctcgagatttcg	238476	-	see also 17322 line
39302	PTGER4	NM_000958.2	1004	ctcaogctcttgcagttctatgc	238474	-	see also 17322 line
39303	PTGFR	NM_000959.2	654	ggcattgagcgggttattggagt	238504	-	see also 17323 line
39304	PTGFR	NM_000959.2	777	atccttgagcatcgagactataa	238508	-	see also 17323 line
39305	PTGDR	NM_000953.2	1018	ctcggagccttgcgattttctatc	238534	-	see also 17324 line
39306	PTGDR	NM_000953.2	1019	tccgagccttgcgattttctctct	238535	-	see also 17324 line
39307	TBXA2R	NM_001060.2	447	ggcgctcgtcatgatctcttcg	238540	-	see also 17325 line
39308	EDG1	NM_001400.2	1295	ggcgagcaaatcgagacaattcc	238556	-	see also 17326 line
39309	EDG1	NM_001400.2	695	tccacaagggagacaataacttc	238549	-	see also 17326 line
39310	EDG2	NM_001401.2	871	ggcattgtaggggtgctatacc	238566	-	see also 974 line
39311	EDG4	NM_004720.3	962	ccggcgagctctgtccactataca	238580	-	see also 17328 line

図46 (続き)

1072

39312	EDG4	NM_004720.3	964	cgccgagctgtgcactatacatc	238581	-	see also 17328 line	receptor_activity、 signal_transduction	-
39313	EDG8	NM_030760.2	1171	gcccggagctctggtatcagaacc	238585	-	see also 39313 line	gpcr	-
39314	EDG8	NM_030760.2	299	ggccgctcacgctgaactgtcc	238584	-	see also 39313 line		
39315	EDG8	NM_030760.2	150	cgcccttcactgctctagagaatc	238582	-	see also 39313 line		
39316	TSHR	NM_000369.1	335	tcacagaatctacgtatctataga	238593	-	see also 17329 line		
39317	TSHR	NM_000369.1	1528	cactcactctgagctactacaacc	238622	-	see also 17329 line		
39318	GNRHR	NM_000406.1	1858	tcggagtgacgggtactcttcttc	238640	-	see also 17330 line		
39319	GNRHR	NM_000406.1	2177	cacgagggcccttagctttgaaaa	238650	-	see also 17330 line		
39320	GNRHR	NM_000406.1	2360	atggtgtgcatcaagcattttata	238658	-	see also 17330 line		
39321	FSHR	NM_000145.2	1231	tcctaaactaccagccaataaaa	238710	-	see also 17331 line		
39322	FSHR	NM_000145.2	1327	ttgcatacgttgatccatacc	238713	-	see also 17331 line		
39323	GPR24	NM_005297.2	667	atcaacctctcgtgtagtatct	238724	-	see also 17332 line		
39324	GPR24	NM_005297.2	1272	cccgacctcaccttctgtact	238726	-	see also 17332 line		
39325	GPR24	NM_005297.2	1271	gcccgaacctcaccttctgtact	238725	-	see also 17332 line		
39326	GPR105	NM_014879.1	1114	cagccgttttagggaaatcttatg	238749	-	see also 17333 line		
39327	GPR105	NM_014879.1	990	gagtcagaccgaagctcattaca	238743	-	see also 17333 line		
39328	P2RY4	NM_002565.2	384	tgcaacggccaccctacatgttcc	238758	-	see also 17334 line		
39329	P2RY4	NM_002565.2	448	accctcactactattatgcagc	238760	-	see also 17334 line		
39330	P2RY4	NM_002565.2	1005	agctgaactccgagactcgaaca	238765	-	see also 17334 line		
39331	GPR86	NM_023914.2	279	acgggaactcctcgtgaatacttt	238772	-	see also 17335 line		
39332	GPR86	NM_023914.2	1040	ttgtatggatcccttaataaca	238789	-	see also 17335 line		
39333	GPR87	NM_023915.2	1399	atcggaagttcgcataataatg	238832	-	see also 17336 line		
39334	GPR87	NM_023915.2	675	gaacttgtagtactcaagtttatt	238808	-	see also 17336 line		
39335	P2RY12	NM_022788.3	888	aactgtaccggtcactcgttaaga	238849	-	see also 17337 line		
39336	P2RY12	NM_022788.3	910	aacggagggtgtgtaggtaaagtcc	238851	-	see also 17337 line		
39337	GPR135	NM_022571.3	1210	gagggtaccggagactaggaatgt	238868	-	see also 17338 line		
39338	GPR135	NM_022571.3	1381	gcccggaaaaatccagttgtact	238870	-	see also 17338 line		
39339	PTAFR	NM_000952.2	995	tgcgtagtagccggaaaatgctcc	238890	-	see also 17339 line		
39340	PTAFR	NM_000952.2	918	ctgtgttttagaccctgttatct	238887	-	see also 17339 line		
39341	CYSLTR1	NM_006639.2	458	gacttcgcaataaagtgatttc	238893	-	see also 4687 line		
39342	CYSLTR1	NM_006639.2	1109	gtcgtgaccgctgcctttttagt	238916	-	see also 4687 line		
39343	CYSLTR2	NM_020377.2	670	ctgatcattcgggtctgtgttaa	238953	-	see also 7856 line		
39344	CYSLTR2	NM_020377.2	547	ggcagtgatcatcatgctgttaga	238949	-	see also 7856 line		
39345	LTBR4R2	NM_019839.1	2272	gaccgcttctgcttctcttcg	238958	-	receptor_activity、 signal_transduction	-	-
39346	LTBR4R2	NM_019839.1	1746	cactctgagctcgaagacttcg	238957	-	see also 39345 line		
39347	CNR1	NM_016083.3	970	agccacgctccgcgcatgattca	238971	-	see also 6654 line		
39348	CNR1	NM_016083.3	1279	cacgcttccggagcagtgattcc	238975	-	see also 6654 line		
39349	CNR2	NM_001841.1	371	tggcgaagtgtgtcttcttcagtc	238980	-	see also 17343 line		
39350	CNR2	NM_001841.1	1173	ggcagattccagagatctagacc	238982	-	see also 17343 line		
39351	MTNR1A	NM_005958.2	1054	pacgtggccgatagggttaaatg	238997	-	see also 17344 line		

図46 (続き)

1073

39352	MTNR1A	NM_005958.2	405	gagcgtcatggctccatattca	238986	-	see also 17344 line
39353	MTNR1B	NM_005959.2	836	agcagctgcggagctttctaac	239008	-	see also 4166 line
39354	TRHR	NM_003301.1	966	accgggtgatttacaatctcatg	239045	-	see also 2232 line
39355	TRHR	NM_003301.1	287	tccgtgctctatggctatttgg	239019	-	see also 2232 line
39356	TRHR	NM_003301.1	962	atcaaccgggtgatttacaatct	239044	-	see also 2232 line
39357	ADMR	NM_007264.2	877	cgctacgtggcgcgtcttggta	239053	-	see also 17347 line
39358	ADMR	NM_007264.2	471	ggcgtctacactcactactctac	239049	-	see also 17347 line
39359	ADMR	NM_007264.2	698	tgcctttctatggcacctttga	239052	-	see also 17347 line
39360	ADORA1	NM_000674.1	1068	ggcgaccgcagagactactatgg	239058	-	see also 17348 line
39361	ADORA1	NM_000674.1	1295	cgcgcgtcaactctcctaagattt	239059	-	see also 17348 line
39362	ADORA2A	NM_000675.3	600	cgcatccgcctccggtacacatgg	239061	-	see also 17349 line
39363	ADORA2A	NM_000675.3	1021	tgcctctacacatcatcaactgc	239064	-	see also 17349 line
39364	ADORA2A	NM_000675.3	853	tgcctaatgctgggtgctctattg	239062	-	see also 17349 line
39365	ADORA2B	NM_000676.2	1213	accgagactccgctacactttt	239080	-	see also 17350 line
39366	ADORA2B	NM_000676.2	658	tcccgctcagggtataaaagttg	239069	-	see also 17350 line
39367	ADORA2B	NM_000676.2	657	gtccgcgtcaggtataaaagttt	239068	-	see also 17350 line
39368	ADORA3	NM_000677.2	1105	agcttacgcgtcagatacaagaagg	239085	-	see also 17351 line
39369	ADORA3	NM_000677.2	1341	gtcatgtgcgcctatctcttga	239090	-	see also 17351 line
39370	AGTRL1	NM_005161.2	749	ggcgtggccacggcagcttctttg	239105	-	see also 17352 line
39371	AGTRL1	NM_005161.2	492	ggcgtcagctgatatcttctatt	239103	-	see also 17352 line
39372	BLR1	NM_001716.2	146	tggacagatggacacataaac	239110	-	see also 17353 line
39373	BLR1	NM_001716.2	145	ctggacagattggacacataaa	239109	-	see also 17353 line
39374	CMKOR1	NM_020311.1	311	atcttcgtcatggcagctatggc	239116	-	see also 7831 line
39375	CXCR6	NM_006564.1	395	tacttggcctatcacatattaac	239127	-	see also 17355 line
39376	CXCR6	NM_006564.1	450	cactgtgactgcttctattttag	239130	-	see also 17355 line
39377	EBI2	NM_004951.2	345	taggataactgcgctagtgtttt	239160	-	see also 17356 line
39378	EBI2	NM_004951.2	346	aggataactgcgctagtgtttta	239161	-	see also 17356 line
39379	EBI2	NM_004951.2	277	accgcttgcctacacgaatago	239156	-	see also 17356 line
39380	ET(B)-LP-2	NM_004767.2	985	gcccgcactgtgtgttactttgg	239208	-	see also 17357 line
39381	ET(B)-LP-2	NM_004767.2	1404	tggcaatgggtcggacacaagc	239209	-	see also 17357 line
39382	ET(B)-LP-2	NM_004767.2	945	gcccaggtccctgtattcactgg	239207	-	see also 17357 line
39383	FKSG79	NM_032553.1	372	cgagtgtcgagcagatttggtttc	239221	-	see also 17358 line
39384	FKSG79	NM_032553.1	624	tccgtctctgattgtctctatt	239230	-	see also 17358 line
39385	FY	NM_002036.1	1078	gacttgcacccctgatatcacgc	239261	-	see also 17359 line
39386	FY	NM_002036.1	702	accagtgtctctggtatctctagc	239259	-	see also 17359 line
39387	GNRHR2	NM_057163.1	229	tccgttcaggtgaagaagaaact	239276	-	see also 17361 line
39388	GNRHR2	NM_057163.1	228	atcccggttcaggtgaaggaaac	239275	-	see also 17361 line
39389	GPBAR1	NM_170699.1	724	tactgttaccctgaagctctatgg	239288	-	receptor_activity, gpcr, signal_transduction
39390	GPR	NM_007223.1	1212	ttctgcaaggtgtgtaaatgtttt	239296	-	see also 17362 line

1074

図46 (続き)

39391	GPR	NM_007223.1	1214	ctgcaaggtcgtcaaatcttgc	239297	-	see also 17362 line
39392	GPR1	NM_005279.2	188	ttctatgacctagactattact	239313	-	see also 17363 line
39393	GPR1	NM_005279.2	949	agctcaccatcaccacacatgc	239334	-	see also 17363 line
39394	GPR100	NM_181885.1	84	tgctccgagctcgtcaaatcc	239342	-	see also 17364 line
39395	GPR100	NM_181885.1	179	tgcttgagtagtactgaactgt	239344	-	see also 17364 line
39396	GPR100	NM_181885.1	87	tcgatgctcgtcaaatctctag	239343	-	see also 17364 line
39397	GPR101	NM_054021.1	191	agtgaccacacogttttatctt	239350	-	see also 17365 line
39398	GPR101	NM_054021.1	193	gtgaccacacogttttatcttaa	239351	-	see also 17365 line
39399	GPR102	NM_053278.1	100	ctgtacacgggcttttagcttgg	239368	-	see also 17366 line
39400	GPR102	NM_053278.1	553	tgctgtagctgctgtcaaatat	239372	-	see also 17366 line
39401	GPR119	NM_178471.1	963	ttctgtcacatcgtcaactct	239398	-	see also 17367 line
39402	GPR119	NM_178471.1	553	tactcgacatcgtcaaatgac	239393	-	see also 17367 line
39403	GPR12	NM_005288.1	449	cgagagagcaggtcactgttacc	239405	-	see also 3704 line
39404	GPR12	NM_005288.1	411	ccgtactcctcactgtactacg	239404	-	see also 3704 line
39405	GPR120	NM_181745.1	995	acccatcctcacaacatgaca	239416	-	see also 10252 line
39406	GPR120	NM_181745.1	560	accaggaaatttcgatttgaca	239411	-	see also 10252 line
39407	GPR132	NM_013345.2	1804	tcataaaggagtgagaagatgg	239422	-	see also 17370 line
39408	GPR132	NM_013345.2	1801	gctggtcgtgacccattatctac	239421	-	see also 17370 line
39409	GPR145	NM_032503.1	685	gagatgactctgtgtatacact	239438	-	see also 17371 line
39410	GPR145	NM_032503.1	675	gacatccctcagcagctactct	239436	-	see also 17371 line
39411	GPR146	NM_138445.1	203	gcggagcgtactcttggtaaca	239457	-	see also 17372 line
39412	GPR146	NM_138445.1	198	acatgcgcggagctgtacttgt	239455	-	see also 17372 line
39413	GPR15	NM_005290.1	802	gggtgcggcgaagcacactatt	239481	-	see also 17373 line
39414	GPR15	NM_005290.1	801	tgaggtgcggcgaagcacactatt	239480	-	see also 17373 line
39415	GPR151	NM_194251.1	245	gagctacggcgtactccaaagt	239486	-	see also 10305 line
39416	GPR151	NM_194251.1	249	tacggcgtactccaaagtggtt	239487	-	see also 10305 line
39417	GPR151	NM_194251.1	470	tgccggaatggtcttttagcaac	239497	-	see also 10305 line
39418	GPR160	NM_014373.1	501	ttcactagcactcgtgtatctt	239512	-	see also 17375 line
39419	GPR160	NM_014373.1	1074	ctggtaccattgttactacttc	239531	-	see also 17375 line
39420	GPR161	NM_007369.1	1075	tgcttgggacoggtattatcg	239550	-	see also 17376 line
39421	GPR161	NM_007369.1	555	ttggtacatcgtggggttgacg	239544	-	see also 17376 line
39422	GPR18	NM_005292.2	1009	aactcactcgtactgacatttt	239582	-	see also 17377 line
39423	GPR18	NM_005292.2	822	gccgaagtacgccaaagaactta	239574	-	see also 17377 line
39424	GPR19	NM_006143.1	433	gtgcaaggttgccgatatttc	239604	-	see also 17378 line
39425	GPR19	NM_006143.1	1183	ctgactatgactcaattgaca	239630	-	see also 17378 line
39426	GPR19	NM_006143.1	819	ttgtccctcgggacaaaagtga	239616	-	see also 17378 line
39427	GPR20	NM_005293.1	372	ccgcacgctcctcggttacttc	239634	gpcr, receptor, activity, signal_transduction	rhodopsin-like receptor
39428	GPR20	NM_005293.1	321	cacgcgtctcgtgtgtactacg	239633	-	see also 39427 line
39429	GPR20	NM_005293.1	732	cacggtcctcactatcttctcg	239635	-	see also 39427 line
39430	GPR22	NM_005295.1	98	cactatcatcogttagcttt	239643	-	see also 3705 line
39431	GPR22	NM_005295.1	132	caccggattcttatgttagaaa	239647	-	see also 3705 line
39432	GPR23	NM_005296.1	492	tcctttcgatcgtactattta	239696	-	see also 3710 line

図 46 (続き)

1075

39433	GPR23	NM_005296.1	497	ttgatctgtactattaggact	239697	-	see also 3710 line
39434	GPR26	NM_153442.1	913	cgcatccgaccccttctgtact	239722	-	see also 17381 line
39435	GPR26	NM_153442.1	945	gacacagtagccgcaaaagctgc	239723	-	see also 17381 line
39436	GPR27	NM_018971.1	806	gcctctctgtctggaagatttc	239724	-	see also 17382 line
39437	GPR3	NM_005281.2	638	gaccacatgtggcgtgtttatc	239729	-	see also 17383 line
39438	GPR3	NM_005281.2	138	ggctcagcaacgtgaatgaag	239726	-	see also 17383 line
39439	GPR3	NM_005281.2	639	accacatgtgcgtgtttatcc	239730	-	see also 17383 line
39440	GPR30	NM_001505.1	969	tcccgacactgtacttcataac	239732	-	see also 17384 line
39441	GPR30	NM_001505.1	1698	ggctatcatgtgagcagaaaca	239737	-	see also 17384 line
39442	GPR30	NM_001505.1	1599	ccctcagggccacatgtcaac	239736	-	see also 17384 line
						gpcr,	rhodopsin-like receptor
39443	GPR31	NM_005299.1	938	acccagagactcctattctga	239738	-	see also 17385 line
39444	GPR32	NM_001506.1	952	ttcgttgagagatttccaaga	239740	-	see also 3711 line
39445	GPR34	NM_005300.2	967	agctcgttaactcctttattgtac	239779	-	see also 3711 line
39446	GPR34	NM_005300.2	411	ttctgggtattcacogtaaaaga	239754	-	see also 17387 line
39447	GPR35	NM_005301.2	731	gacggagacccgcctctacatga	239790	-	see also 17387 line
39448	GPR35	NM_005301.2	1064	caggagacacccggcacaaattca	239792	-	see also 17387 line
39449	GPR37	NM_005302.2	746	ctgctccagaaaacgaacttgt	239796	-	see also 3712 line
39450	GPR37	NM_005302.2	2226	gcacatgacactccttaataatca	239839	-	see also 3712 line
39451	GPR38	NM_001507.1	940	ttccacgttgagcagaatattta	239848	-	see also 17389 line
39452	GPR38	NM_001507.1	240	ggccgtgtccgacctactatcc	239847	-	see also 17389 line
39453	GPR39	NM_001508.1	70	gagggtggccacctggatcaaat	239855	-	see also 17390 line
39454	GPR39	NM_001508.1	24	cagtgactgtctccaaatcattg	239853	-	see also 17390 line
						gpcr,	rhodopsin-like receptor
39455	GPR4	NM_005282.1	649	ttccggccatccctctacatcttt	239862	-	see also 39455 line
39456	GPR4	NM_005282.1	1371	ttcgaggagagcgctctttctgc	239864	-	see also 39455 line
39457	GPR4	NM_005282.1	803	ggcgcgtgtgggtggaactctcc	239863	-	see also 39455 line
						gpcr,	rhodopsin-like receptor
39458	GPR40	NM_005303.1	816	ttccgctggtgacccgtgtacttgg	239868	-	see also 5041 line
39459	GPR40	NM_005303.1	739	agcttctgtaccccaatctatag	239866	-	see also 5041 line
39460	GPR40	NM_005303.1	350	ttccggagggcgtctattctctgg	239865	-	see also 17393 line
39461	GPR43	NM_005306.1	751	agccctgtgtggcgtgcaatagc	239871	-	see also 17393 line
39462	GPR43	NM_005306.1	965	tgcgaagtggcgtctcactaca	239873	-	see also 17391 line
39463	GPR44	NM_004778.1	647	cgcatatgtgtactacataatgt	239875	-	see also 17392 line
39464	GPR45	NM_007227.3	134	gtcccttgaggcttaccataacc	239877	-	see also 5041 line
39465	GPR45	NM_007227.3	1198	cagttcatgtgcaatgaataac	239883	-	see also 5041 line
39466	GPR48	NM_018490.1	3015	ttgggactgtcggatcgttttc	239961	-	see also 17393 line
39467	GPR48	NM_018490.1	3016	tgcgactgtcggatcgtttct	239962	-	see also 17393 line
39468	GPR49	NM_003667.2	2698	tccgtgcacaccacagattatcc	240033	-	see also 2492 line
39469	GPR50	NM_004224.1	1004	tgcggcacccatcatattcttc	240052	-	see also 17395 line
39470	GPR50	NM_004224.1	180	caccatcgtgttagacctaatcg	240041	-	see also 17395 line

図 46 (続き)

1076

39471	GPR50	NM_004224.1	138	ccacacggctctaatcatcttta	240037	-	see also 17395 line		
39472	GPR52	NM_005684.1	780	ccgtgctacacccatgtttgt	240083	-	see also 17396 line		
39473	GPR52	NM_005684.1	779	acgtcgctacacccatgtttgt	240082	-	see also 17396 line		
39474	GPR52	NM_005684.1	413	atcggtatcttgcaataccaag	240073	-	see also 17396 line		
39475	GPR54	NM_032551.2	218	tgcggacccgtgaccaactctac	240091	-	see also 17397 line		
39476	GPR55	NM_005683.2	643	gacgggaagcatccctatctaca	240097	-	see also 17398 line		
39477	GPR55	NM_005683.2	344	aacaggtggccgattatctgc	240095	-	see also 17398 line		
39478	GPR58	NM_014626.1	238	atgcttagcataacatccattt	240114	-	see also 17399 line		
39479	GPR58	NM_014626.1	232	gacotgatgcttagcataacac	240112	-	see also 17399 line		
							gpcr,	receptor activity,	rhodopsin-like
39480	GPR6	NM_005284.2	517	accgctacccgtccctgtataac	240139	-	signal transduction	-	-
39481	GPR61	NM_031936.2	1075	ccggcaacgcctccgaatctctca	240151	-	see also 17400 line		
39482	GPR61	NM_031936.2	526	gacgcctccctccgaaaatttg	240140	-	see also 17400 line		
39483	GPR63	NM_030784.1	379	tccctgacccgtgaatagtagc	240162	-	see also 8947 line		
39484	GPR63	NM_030784.1	961	ttcataccctctctgtaatact	240191	-	see also 8947 line		
39485	GPR73	NM_138984.1	109	ttcagctacacgcactatgat	240203	-	see also 17403 line		
39486	GPR73	NM_138984.1	225	ctgcggcattggaaacttcaat	240207	-	see also 17403 line		
39487	GPR73L1	NM_144773.2	230	cctcaccccgctataagaattg	240217	-	see also 17404 line		
39488	GPR73L1	NM_144773.2	557	tcccatggctactttgcaaca	240221	-	see also 17404 line		
39489	GPR75	NM_006794.1	1640	ctcggattgaacctactacagc	240243	-	see also 17405 line		
39490	GPR75	NM_006794.1	1058	ttcagacccgtgcatataccaag	240234	-	see also 17405 line		
39491	GPR78	NM_080819.2	1139	cagggaagtggcattgctattg	240251	-	see also 17406 line		
39492	GPR78	NM_080819.2	542	agcgctctctctggaatctgt	240250	-	see also 17406 line		
39493	GPR80	NM_080818.2	24	gagccactagactatttagcaaa	240255	-	see also 17407 line		
39494	GPR80	NM_080818.2	867	tacatgcttagaccattagga	240290	-	see also 17407 line		
39495	GPR82	NM_080817.1	696	aacctgtacgtccattatggaga	240321	-	see also 9525 line		
39496	GPR83	NM_016540.2	539	accgggactcaatacaacaagg	240344	-	see also 17409 line		
39497	GPR83	NM_016540.2	588	accatggctacgttttttcaat	240345	-	see also 17409 line		
39498	GPR83	NM_016540.2	780	tacgctcgtgtggccaagaact	240347	-	see also 17409 line		
39499	GPR84	NM_020370.1	1213	cgccaattccgccaagcatatgg	240372	-	see also 17410 line		
39500	GPR84	NM_020370.1	549	tcctctctggcctatttatcc	240358	-	see also 17410 line		
39501	GPR85	NM_018970.3	730	tgcataggagcacttactacttc	240377	-	see also 7615 line		
39502	GPR85	NM_018970.3	1392	ttggtcttagacaggttcaaaat	240395	-	see also 7615 line		
39503	GPR88	NM_022049.1	532	tcctgggtgctacctctgtattog	240402	-	see also 17412 line		
39504	GPR88	NM_022049.1	579	ggcaacggcactggtcatctat	240404	-	see also 17412 line		
39505	GPR88	NM_022049.1	578	ggccaacggcactggtcatctat	240403	-	see also 17412 line		
39506	GPR91	NM_033050.1	170	tgttgtttacggctacatcttc	240409	-	see also 17413 line		
39507	GPR91	NM_033050.1	785	atacgtcatgggaatgtgagg	240422	-	see also 17413 line		
							receptor activity,	gpcr,	rhodopsin-like
39508	GPR92	NM_020400.3	1110	accgcctggtgactactttagc	240426	-	signal transduction	-	-
39509	GPR92	NM_020400.3	394	ctcgggtggtgagcgtgtacatgt	240424	-	see also 39508 line		
39510	GPR92	NM_020400.3	1109	gacccgctggtgtactactttag	240425	-	see also 39508 line		

1077

図46 (続き)

39511	GRCA	NM_014449.1	549	agcaatgctggcccatctct	240427	-	see also 17414 line		
39512	GRCA	NM_014449.1	610	tgcagaggccgaggttgaaag	240428	-	see also 17414 line		
39513	GREAT	NM_130806.2	783	agcgtgttttaccgggattaat	240456	-	see also 9550 line		
39514	GREAT	NM_130806.2	1307	cccttgacggcagcgattcttc	240466	-	see also 9550 line		
39515	H963	NM_013308.2	918	cacgggctacatcatatgcttg	240523	-	see also 17416 line		
39516	H963	NM_013308.2	913	gtgacacagggtacatcatatg	240522	-	see also 17416 line		
39517	HM74	NM_006018.1	1136	ggccaaacctcaataaccattcc	240528	-	gpcr, purinergic nucleotide receptor, G-protein coupled	-	-
39518	HM74a	NM_177551.2	566	tccagaatggcgggtgcaatttg	240529	-	gpcr, purinergic nucleotide receptor, G-protein coupled	-	-
39519	JCG1	NM_153445.1	642	agccatatcctacatctatcc	240541	-	see also 17417 line		
39520	JCG1	NM_153445.1	107	ttgtcaccttaattgggtaatac	240533	-	see also 17417 line		
39521	JCG3	NM_153444.1	32	ctctgacggggttcctctattg	240544	-	see also 17418 line		
39522	JCG3	NM_153444.1	630	agccgtctgctacatctatcc	240557	-	see also 17418 line		
39523	JCG6	NM_178168.1	811	agcaagaagtgtttatcatatc	240561	-	receptor activity, signal transduction		
39524	LGR6	NM_021636.1	710	aactggggttcatacaacaac	240571	-	gpcr, olfactory receptor	-	-
39525	LGR6	NM_021636.1	111	ttgtcaagtgaataatcatct	240564	-	see also 17419 line		
39526	LGR7	NM_021634.1	1870	atgatccttgccaaacggtttt	240638	-	see also 17420 line		
39527	LGR7	NM_021634.1	594	cagactagaatggcgtgataatg	240600	-	see also 17420 line		
39528	LHGR	NM_000233.1	756	gcacgtcatctatctctaaa	240674	-	see also 17421 line		
39529	LHGR	NM_000233.1	153	ggcgtctcactgactatcaact	240655	-	see also 17421 line		
39530	LHGR	NM_000233.1	1942	aacgtcgggttgaaactttataga	240714	-	see also 17421 line		
39531	MAS1L	NM_052967.1	312	cagaaatccctacatggtatata	240722	-	see also 17422 line		
39532	MAS1L	NM_052967.1	346	gtcgtcgtgacgtgactctatct	240723	-	see also 17422 line		
39533	MAS1L	NM_052967.1	723	gtcaggtgtactctactacta	240732	-	see also 17422 line		
39534	MBC2	NM_015292.1	770	tggcgtttttgggggtgatactgg	240748	-	see also 17423 line		
39535	MBC2	NM_015292.1	845	cggacgcccgaccctagacatca	240750	-	see also 17423 line		
39536	MGC21621	NM_145015.2	988	ctgggtcctcactactactagg	240796	-	see also 17424 line		
39537	MGC21621	NM_145015.2	765	cacctgcctgcacacactactct	240795	-	see also 17424 line		
39538	MGC24137	NM_152430.1	655	ttctgcgcgtcccaatctctt	240806	-	see also 9862 line		
39539	MGC24137	NM_152430.1	565	ttgcctcgttcacccaaatgg	240804	-	see also 9862 line		
39540	MGC26856	NM_152779.1	388	ggcattacggcttggtataatga	240813	-	see also 17425 line		
39541	MGC26856	NM_152779.1	457	ggccattatacacacagttagtttg	240816	-	see also 17425 line		
39542	MGC40047	NM_175911.2	729	atcctatccgcatgagtaaatg	240832	-	see also 17426 line		
39543	MGC40047	NM_175911.2	838	ctgcaggcttagggctattgacc	240834	-	see also 17426 line		
39544	MRGX1	NM_147199.1	727	cagtgagcagggaggtcttatt	240852	-	see also 17427 line		
39545	MRGX1	NM_147199.1	268	atccccatcacatctctaaaat	240846	-	see also 17427 line		
39546	MRGX1	NM_147199.1	270	ccccatcacatctctaaaatcc	240848	-	see also 17427 line		
39547	MRGX3	NM_054031.1	522	aacgtcagatttcaataatccg	240854	-	gpcr, receptor activity, signal transduction	-	-

図46 (続き)

1078

39548	MRGX3	NM_054031.1	728	acctggattggaagcttattt	240856	-	see also 39547 line
39549	MRGX3	NM_054031.1	701	ttcagtgaggccctgtttccagg	240855	-	see also 39547 line
39550	MRGX4	NM_054032.1	226	ctcagcttcagattatcattc	240857	gpcr, receptor_activity, signal_transduction	-
39551	MRGX4	NM_054032.1	775	ttccctgtctctctaaacagtag	240859	-	see also 39550 line
39552	MRGX4	NM_054032.1	727	cacctgaatttggaagcttata	240858	-	see also 39550 line
39553	OPRL1	NM_000913.3	272	gccgttcggaggttatctacg	240861	-	see also 17428 line
39554	OPRL1	NM_000913.3	681	atgagtggtgagcgtatgtacg	240863	-	see also 17428 line
39555	OR10H1	NM_013940.1	514	aaggagatccaccatttgccttg	240864	-	see also 17429 line
39556	OR10H1	NM_013940.1	515	aggagatccaccatttgccttg	240865	-	see also 17429 line
39557	OR10H2	NM_013939.1	917	ttctcagcacactctattctca	240867	-	olfactory receptor
39558	OR10H3	NM_013938.1	389	cactgcattacaacatgctaatg	240870	-	see also 17430 line
39559	OR10H3	NM_013938.1	712	aagactttctccacttgctatc	240872	-	see also 17430 line
39560	OR10J1	NM_012351.1	447	gaggctgcgtatccacattgtcc	240879	-	see also 17431 line
39561	OR10J1	NM_012351.1	144	aaccttaagcaggaataatcatca	240876	-	see also 17431 line
39562	OR11A1	NM_013937.2	850	tggagcgtcatgattctttatg	240897	-	see also 17432 line
39563	OR11A1	NM_013937.2	681	agggtgacaaactctcattctgtct	240891	-	see also 17432 line
39564	OR12D3	NM_030959.2	257	tgcagtcagcagggctatatcttt	240905	-	see also 17433 line
39565	OR12D3	NM_030959.2	764	gtgggcttcacatatattgtctc	240916	-	see also 17433 line
39566	OR1E2	NM_003554.1	213	ctgcttttctcagtcacaatgc	240920	receptor_activity, signal_transduction, gpcr	olfactory receptor
39567	OR1F1	NM_012360.1	580	ctcattgaggtcataatccttag	240923	-	see also 17434 line
39568	OR1F1	NM_012360.1	575	cacactcaatagggtcataatc	240922	-	see also 17434 line
39569	OR1F1	NM_012360.1	895	ggggctctgaaaaaagtagttgg	240925	-	see also 17434 line
39570	OR2H1	NM_030883.3	648	ctctgctttaccacaaagtgtgt	240926	receptor_activity, signal_transduction, gpcr	olfactory receptor
39571	OR2H3	NM_007160.2	503	cagatcggcagagtagatgtttt	240927	-	see also 17435 line
39572	OR2J2	NM_030905.1	849	accgagcttaatctcttaattct	240948	-	see also 17436 line
39573	OR2J2	NM_030905.1	285	tgtctggttcagctggttcaacttt	240932	-	see also 17436 line
39574	OR2W1	NM_030903.1	857	accgctcatttacaccttaaga	240967	-	see also 17437 line
39575	OR2W1	NM_030903.1	285	gggttgatcatcccaactctatg	240954	-	see also 17437 line
39576	OR3A2	NM_002551.2	1182	cacctcaaccgtggtttgtctttt	240971	-	see also 17438 line
39577	OR3A2	NM_002551.2	1183	acctcaccgtggtttgtctttc	240972	-	see also 17438 line
39578	OR5A1	NM_012375.1	474	agcccatgctgtagtactgataa	240990	-	see also 17439 line
39579	OR5A1	NM_012375.1	475	gccccatgctgtagtactgataaa	240991	-	see also 17439 line
39580	OR5I1	NM_006637.1	436	ttgattgtttgtcacacttgg	241023	-	see also 17440 line
39581	OR5I1	NM_006637.1	262	ctctcggagacacaaactctatttc	241017	-	see also 17440 line
39582	OR5V1	NM_030876.3	864	tacggccatctacaactactca	241049	-	see also 17441 line
39583	OR5V1	NM_030876.3	494	agcaagggttctatgcaactcaat	241039	-	see also 17441 line
39584	OR6A1	NM_003696.2	263	tgcgccactcaggtactatttgt	241053	-	see also 17442 line
39585	OR6A1	NM_003696.2	472	aggatcatgacagactaatctcc	241057	-	see also 17442 line

図 46 (続き)

1079

39586	P2RY1	NM_002563.2	1406	aggtacaggagggtccgcaaaaaca	241076	-	see also 1650 line
39587	P2RY1	NM_002563.2	1458	gacaggtacacgtcggaagtattt	241079	-	see also 1650 line
39588	P2RY10	NM_014499.2	739	ctgacgtgcatcagcttcaaaag	241108	-	see also 17444 line
39589	P2RY10	NM_014499.2	629	tacccctccgagtttactattac	241105	-	see also 17444 line
39590	P2RY11	NM_002566.3	48	ggcagctgcgcgacgacaaaactca	241120	-	see also 17445 line
39591	P2RY11	NM_002566.3	844	tgcgcggagcttgcagacatagc	241123	-	see also 17445 line
39592	P2RY2	NM_002564.2	530	atgcgtccacacatatatgttc	241129	-	see also 17446 line
39593	P2RY2	NM_002564.2	591	gccgtctggtctatctactacg	241131	-	see also 17446 line
39594	P2RY5	NM_005767.3	1675	tactttacatggacacaaattca	241155	-	see also 17447 line
39595	P2RY5	NM_005767.3	1270	accactctcagggttaacaatgc	241144	-	see also 17447 line
39596	P2RY5	NM_005767.3	1212	caactggcgtgaggttaactgga	241142	-	see also 17447 line
39597	P2RY6	NM_004154.3	483	ggcgtgtacacccctaaaccttgc	241162	-	see also 17448 line
39598	P2RY6	NM_004154.3	482	ggccgtgtacacccctaaaccttg	241161	-	see also 17448 line
39599	P2RY8	NM_178129.3	1113	agctgcgcctcgaggaaatttg	241178	-	see also 17449 line
39600	P2RY8	NM_178129.3	1069	ctgtctgagacccgttgtttatt	241175	-	see also 17449 line
						receptor_activity,	
						gpcr,	
						signal_transduction	rhodopsin-like
						receptor	
39601	RGR	NM_002921.2	798	cacgataaatgccatcaactatg	241181	-	
39602	RGR	NM_002921.2	699	ccctatgcatcctgtatctat	241180	-	see also 39601 line
39603	RGR	NM_002921.2	587	cccttctcatcagatcacttcc	241179	-	see also 39601 line
39604	RRH	NM_006583.1	565	gtgctaagtaccataaactgg	241202	-	see also 4613 line
39605	RRH	NM_006583.1	465	aacaactacatggctgtattct	241196	-	see also 4613 line
39606	SALPR	NM_016568.1	732	ggcgtgacggacttccagtttg	241228	-	see also 17451 line
39607	SALPR	NM_016568.1	379	gccagatagaccacatgaataa	241223	-	see also 17451 line
39608	sdolf	NM_033519.1	559	ctctgacacccgcacacattgagc	241238	-	see also 17452 line
39609	sdolf	NM_033519.1	214	ctcaactgtgtacatagatgagc	241235	-	see also 17452 line
39610	SREB3	NM_018969.3	309	accgtccgcacagcttatgtga	241240	-	see also 7614 line
39611	SREB3	NM_018969.3	1256	ctgcgcgtcaaccccaattgtctgc	241252	-	see also 7614 line
39612	TA4	NM_175067.1	91	tccagggtgattctgtacatagt	241254	-	see also 17453 line
39613	TA4	NM_175067.1	564	agggtgtcagaccgttgttaaatc	241260	-	see also 17453 line
39614	TAR1	NM_138327.1	108	cacaactctgtggcaactctgatag	241271	-	see also 17454 line
39615	TAR1	NM_138327.1	297	cacaagcaccgacattatgctga	241276	-	see also 17454 line
39616	TAR3	NM_175057.1	994	aggactgattctgtcaacaactaa	241309	-	see also 17455 line
39617	TAR3	NM_175057.1	50	acgtgaacgaatctcgaataaa	241288	-	see also 17455 line
39618	TG1019	NM_148962.3	517	ggccctccgcgtggactactacc	241315	-	see also 17456 line
39619	TG1019	NM_148962.3	412	cagttggccctcttctcatctct	241314	-	see also 17456 line
39620	VNIR1	NM_020633.2	929	ctgtgtgtgcgcctcatgttctc	241345	-	see also 17457 line
39621	VNIR1	NM_020633.2	242	gaccacaggactgtttctcagc	241329	-	see also 17457 line
39622	VNIR2	NM_173856.1	605	aagtaagccccgcacatacatt	241355	-	see also 17458 line
39623	VNIR2	NM_173856.1	1077	tccaactattagccctttgttc	241368	-	see also 17458 line
39624	VNIR3	NM_174980.1	427	aacacgctggtaataatactgt	241380	-	see also 17459 line
39625	VNIR3	NM_174980.1	165	agccaactccttggttatactct	241375	-	see also 17459 line
39626	VNIR4	NM_173857.1	531	gacactgcgtgcaatgtgttat	241404	-	see also 17460 line
39627	VNIR4	NM_173857.1	481	aacggaggattgggactactgtc	241401	-	see also 17460 line

1080

図46. (続き)

39828	VN1R4	NM_173857.1	160	ttcttagctctcgcgtgtaagg	241393	-	see also 17460 line
39829	CASR	NM_000388.2	1605	cacgatttaacggatatactaca	241441	-	see also 309 line
39830	CASR	NM_000388.2	1582	gtcggagacccttaccatagatta	241439	-	see also 309 line
39831	GPRC5B	NM_016235.1	1205	gaaccagcgcctcgttttagaagc	241476	-	see also 17462 line
39832	GPRC5B	NM_016235.1	1114	ttctccatgatgaacacacatgc	241475	-	see also 17462 line
39833	GPRC6A	NM_148963.1	2121	gcctctatagaccgactctatt	241537	-	see also 17463 line
39834	GPRC6A	NM_148963.1	684	gaagattgctcttaacactttt	241495	-	see also 17463 line
39835	GRM1	NM_000838.2	3361	tacogagatccgggattttccag	241603	-	see also 550 line
39836	GRM2	NM_000839.1	1591	accgattggagcaattcaactgc	241617	-	see also 17465 line
39837	GRM2	NM_000839.1	2167	accacgcgcgtacagatattgtg	241621	-	see also 17465 line
39838	GRM2	NM_000839.1	1590	tacgattggagcaattcaacttg	241616	-	see also 17465 line
39839	GRM3	NM_000840.1	1722	atcgtagatgtaacactctatcc	241654	-	see also 552 line
39840	GRM3	NM_000840.1	1643	ggcgatacaacgtgttoaattc	241648	-	see also 552 line
39841	GRM4	NM_000841.1	953	ggcagcggagttcacaagatcca	241687	-	see also 17467 line
39842	GRM4	NM_000841.1	2123	ctgctcgtgcgcgaactcttc	241695	-	see also 17467 line
39843	GRM5	NM_000842.1	2058	tgcgaagcccaacagagatttact	241720	-	see also 17468 line
39844	GRM5	NM_000842.1	1506	tagcatctattcgtatgagaatg	241710	-	see also 17468 line
39845	GRM6	NM_000843.2	2339	ccacacacgcgtgattgactatg	241745	-	see also 17469 line
39846	GRM6	NM_000843.2	1178	ggcctccatgcagcagattgaccc	241738	-	see also 17469 line
39847	GRM6	NM_000843.2	2338	ccccacacgcgtgattgactat	241744	-	see also 17470 line
39848	GRM7	NM_000844.2	1194	tactttacgtcccgtaacttga	241762	-	see also 17470 line
39849	GRM7	NM_000844.2	1377	ttcgtgatgacgaactatgac	241771	-	see also 17470 line
39850	GRM8	NM_000845.1	1293	ggcttacgcctgcacacatagc	241835	-	see also 559 line
39851	GRM8	NM_000845.1	1901	gggcttcaggccgcggaacttagt	241849	-	see also 559 line
39852	RAI3	NM_003979.2	758	tcgcctcctcgtgcgaatgaaga	241881	-	see also 17472 line
39853	RAI3	NM_003979.2	763	tcctcgtcgaatgaagactttg	241883	-	see also 17472 line
39854	TASIR1	NM_138697.2	2404	agcgcttcgttgggtattttct	241926	-	see also 17473 line
39855	TASIR1	NM_138697.2	2403	cagcgcttcgttgggtattttc	241925	-	see also 17473 line
39856	TASIR2	NM_152232.1	138	agggcattgttcaacttaacttc	241929	-	see also 17474 line
39857	TASIR2	NM_152232.1	139	ggcgattgtcaacttaacttcc	241930	-	see also 17474 line
39858	PTHR1	NM_000316.2	590	gcctgtccggactacactatttg	241948	-	see also 17475 line
39859	PTHR1	NM_000316.2	591	ccctgtccggactacactattga	241949	-	see also 17475 line
39860	PTHR2	NM_005048.2	1334	tgcattacatcgttctgatgc	241988	-	see also 17476 line
39861	PTHR2	NM_005048.2	638	aagcctctatgaatgataacc	241972	-	see also 17476 line
39862	CALCR	NM_001742.1	804	agcaacgttcgttgggtatttat	242019	-	see also 1153 line
39863	RCP9	NM_014478.3	92	ctcagtaactacagaggatttca	242036	-	see also 17478 line
39864	RCP9	NM_014478.3	190	cactatacctatgaacagttaa	242041	-	see also 17478 line
39865	CRHR1	NM_004382.2	440	ttctatgggtccgtcacacatcc	242045	-	see also 2940 line
39866	CRHR1	NM_004382.2	894	ctgacccggctgcgcaatggatg	242049	-	see also 2940 line
39867	CRHR2	NM_001883.2	727	ggcattgcgcaactctactatga	242069	-	see also 1207 line
39868	CRHR2	NM_001883.2	261	gacgtggccctcaagatcaact	242059	-	see also 1207 line
39869	VIPR1	NM_004624.2	1160	tggagttacatcatcatgttcg	242089	-	see also 17481 line
39870	VIPR1	NM_004624.2	486	gacaaggcagcagtttgatga	242077	-	see also 17481 line
39871	GQGR	NM_000160.1	799	tgccatcacgcgaactgtttg	242094	-	see also 17482 line

図46. (続き)

1081

39672	GGR	NM_000160.1	800	gcatccacgcgaactctgtttgc	242095	-	see also 17482 line
39673	GHRHR	NM_000823.1	922	ctctggctgggtgaactttgg	242110	-	see also 17483 line
39674	GHRHR	NM_000823.1	323	ctgtgaacagggttactatc	242102	-	see also 17483 line
39675	SCTR	NM_002980.1	668	ttgtgacctgtccaactcgc	242117	-	see also 17484 line
39676	SCTR	NM_002980.1	897	gggtctccagccattttgttg	242118	-	see also 17484 line
39677	FKSG83	NM_032030.1	110	ttgggtctcagggaacttttg	242121	-	see also 17485 line
39678	FKSG83	NM_032030.1	520	ttcactaatgttggactttgata	242142	-	see also 17485 line
39679	VNIH5	NM_173858.1	936	tgccgaattagctctttgagc	242176	-	see also 17486 line
39680	VNIH5	NM_173858.1	225	caggctaaagtcattgacatga	242160	-	see also 17486 line
39681	ADCYAP1	NM_001118.3	592	gtcgggaacctctccctcattact	242181	-	see also 17487 line
39682	ADCYAP1	NM_001118.3	1075	ggctaacgtgagactctactttg	242196	-	see also 17487 line
39683	ADCYAP1						
39683	R1	NM_001118.3	351	agctgatgggcttcaatgattcc	242179	-	see also 17487 line
39684	BAI2	NM_001703.1	2305	tacgtgccctcgctgatgatgt	242217	-	see also 1115 line
39685	BAI2	NM_001703.1	601	ggcaggtgtgcgcacactttgc	242205	-	see also 1115 line
39686	BAI3	NM_001704.1	3610	ggacttcctgtctgacagttct	242338	-	see also 1116 line
39687	BAI3	NM_001704.1	4385	ttcgggataccaaatacaagc	242367	-	see also 1116 line
39688	C17orf35	NM_003876.1	544	cogttggcgtgccttagatta	242374	-	see also 17490 line
39689	C17orf35	NM_003876.1	416	tggaaagccagtcacaaatcatt	242373	-	see also 17490 line
39690	C7orf9	NM_022150.2	508	caccatgtgcacatgacttttt	242387	-	see also 17491 line
39691	C7orf9	NM_022150.2	323	tgggaggaacgttcaagaagaaa	242383	-	see also 17491 line
39692	CALORL	NM_005795.2	1445	gcggttcataccaaagttaaa	242428	-	see also 17492 line
39693	CALORL	NM_005795.2	948	gacagggatgttatgtcatca	242400	-	see also 17492 line
39694	CALORL	NM_005795.2	626	atcatgcagctcaatatgaatg	242392	-	see also 17492 line
39695	FZD1	NM_003505.1	459	ggcggagctgggaactttgtgc	242447	-	see also 17493 line
39696	FZD1	NM_003505.1	1544	ccgagtggtgtgtaatacaagt	242452	-	see also 17493 line
39697	FZD10	NM_007197.2	2053	cagggtgcgcgcgtaggttaaa	242459	-	see also 17494 line
39698	FZD10	NM_007197.2	2058	gtgcagcgttaggttaagaaga	242461	-	see also 17494 line
39699	FZD2	NM_001466.2	818	ggcccgatgttccatgtcttc	242466	-	see also 17495 line
39700	FZD2	NM_001466.2	1686	cacgtctacatgatcaaatacc	242471	-	see also 17495 line
39701	FZD3	NM_017412.2	1305	cagtgacacaggaatcctaata	242505	-	see also 6984 line
39702	FZD3	NM_017412.2	1080	ttgctcgtatttcattagattg	242492	-	see also 6984 line
39703	FZD4	NM_012193.2	1690	tggcagcttttcgtattctgc	242559	-	see also 5185 line
39704	FZD4	NM_012193.2	1700	ttcgggtattctgcagatgattcc	242560	-	see also 5185 line
39705	FZD5	NM_003468.2	816	aggtcctctcgcagattacaac	242562	-	see also 17498 line
39706	FZD5	NM_003468.2	1666	ccgcataccgagcgcataaagc	242563	-	see also 17498 line
39707	FZD6	NM_003506.2	555	acctgtcgaactttgtgaga	242569	-	see also 2363 line
39708	FZD6	NM_003506.2	2087	gagtagacaccccgagttaaaga	242614	-	see also 2363 line
39709	FZD8	NM_031866.1	242	gtgctgcccagctcgaattct	242626	-	see also 17500 line
39710	FZD8	NM_031866.1	2039	cacggcagctcgtgtctatc	242630	-	see also 17500 line
39711	FZD9	NM_003508.1	1713	gtggcagcagctccactataag	242643	-	see also 17501 line
39712	FZD9	NM_003508.1	1546	ggcgggttctatgctcaaaattt	242642	-	see also 17501 line

図46 (続き)

1082

39713	GPR	NM_000164.1	1475	gcccggagttggaaagtactgc	242657	-	see also 17502 line
39714	GPR	NM_000164.1	560	tagccctgctcatcttggttg	242649	-	see also 17502 line
39715	GLP	NM_002062.2	228	gocaggctgcttggaatgtca	242659	-	see also 17503 line
39716	GLP	NM_002062.2	230	caggctgcttggaatgtcagc	242660	-	see also 17503 line
39717	GLP	NM_004246.1	437	tagagaaacccacagatattgg	242675	-	see also 2850 line
39718	GLP	NM_004246.1	695	acgtgctcttctacaactcttac	242678	-	see also 2850 line
39719	GPR	NM_153840.1	1081	atcgtgacgtgccaatgtactca	242731	-	see also 10021 line
39720	GPR	NM_153840.1	1268	ctcacacacgtctgatttgcgtg	242737	-	see also 10021 line
39721	GPR	NM_153839.1	47	tgcatttcgggctcaacttgact	242756	-	see also 17506 line
39722	GPR	NM_153839.1	1448	tacgccatgtgtgcataaagggttg	242787	-	see also 17506 line
39723	GPR	NM_153834.1	8188	agccggtgtcagataaagggttg	243025	-	see also 17507 line
39724	GPR	NM_153834.1	3047	cccatggagacttgattgtacc	242877	-	see also 17507 line
39725	GPR	NM_153835.1	2994	cacggctccttaacatcttca	243052	-	see also 17508 line
39726	GPR	NM_153835.1	1927	gcccattgtgtcgtatgggaac	243041	-	see also 17508 line
39727	GPR	NM_153838.1	1353	atcgtgacagacaaagtcttgg	243086	-	see also 17509 line
39728	GPR	NM_153838.1	2213	cactaggcccaacaaatggatct	243107	-	see also 17509 line
39729	GPR	NM_153838.1	54	tagcggtaggttggttattgttc	243057	-	see also 17509 line
39730	GPR	NM_015234.1	2377	cacgtgctctctacgttaattgt	243173	-	see also 17510 line
39731	GPR	NM_015234.1	3120	gaccaagaacccgactcttata	243185	-	see also 17510 line
39732	GPR	NM_015234.1	2002	tgcaggatccgttaataaggtgt	243165	-	see also 17510 line
39733	GPR	NM_032422.1	2422	atcgtgtgcactattctacact	243207	-	see also 17511 line
39734	GPR	NM_032422.1	17	accactcggctgaaatccaga	243195	-	see also 17511 line
39735	GPR	NM_032777.6	2658	gtcctatgtccgggtctatttg	243223	-	see also 17512 line
39736	GPR	NM_032777.6	1828	gtcgtctccacatacaagaaca	243222	-	see also 17512 line
39737	GPR	NM_032787.1	1485	gocgtgcaacatactactaat	243268	-	see also 17513 line
39738	GPR	NM_032787.1	715	cacagcaccacttaataacattt	243236	-	see also 17513 line
39739	GPR	NM_032787.1	804	cgcgggtggttgacacagatatt	243239	-	see also 17513 line
39740	GPR	NM_198827.1	565	agcaagaccgttactactatgg	243323	-	see also 17514 line
39741	GPR	NM_198827.1	245	aggtggcgtgtgtctatcagc	243320	-	see also 17514 line
39742	GPR	NM_000273.1	324	gtccaccgtgtgttaggattcc	243327	-	see also 17515 line
39743	GPR	NM_000273.1	779	cogtgcataagatccgattttc	243334	-	see also 17515 line
39744	GPR	NM_024980.2	569	ggccattgctctacttctacc	243344	-	see also 17516 line
39745	GPR	NM_005756.1	2726	agcaatggagccggtatcttgt	243421	-	see also 3997 line
39746	GPR	NM_170776.3	606	ggcagcggcgtgtgaacaatog	243446	-	see also 17517 line
39747	GPR	NM_170776.3	1367	aacctgtacgccctatatca	243452	-	see also 17517 line
39748	LANCL	NM_006055.1	887	cctctcatgttaggtgataatc	243485	-	see also 4214 line
39749	LANCL	NM_006055.1	564	ggcgaataggctacatctatgc	243475	-	see also 4214 line
39750	LANCL	NM_006055.1	122	cccggaatccttatgtcgattata	243459	-	see also 4214 line
39751	TAS2R38	NM_176817.1	275	accgaagcctaatgaatgctatgg	243498	-	see also 17519 line
39752	TAS2R38	NM_176817.1	279	agccatcatcgtatgatga	243499	-	see also 17519 line
39753	TAS2R38	NM_176817.1	19	atcgcactgtctctatgaagt	243496	-	see also 17519 line
39754	TAS2R39	NM_176881.1	921	ctcaattctactgattcaagata	243524	-	see also 17520 line
39755	TAS2R39	NM_176881.1	102	caccttaattttgacgtttac	243506	-	see also 17520 line
39756	TAS2R40	NM_176882.1	65	tgggtggtctcgggaataggtgc	243526	-	see also 17521 line

図 46 (続き)

1083

39757	TAS2R40	NM_176882.1	159	ccccactggtgacgcgcatatgt	243528	-	see also 17521 line
39758	TAS2R41	NM_176883.1	447	ttgggtgaactaccctgttatatc	243548	-	see also 17522 line
39759	TAS2R41	NM_176883.1	451	gtgaactaccctgtatatcaaga	243549	-	see also 17522 line
39760	TAS2R45	NM_176886.1	550	aacttagtaacctttactgttaac	243559	-	receptor_activity, gpcr,
39761	TAS2R46	NM_176887.1	522	ttcaaatacaacggtaaccatoc	243560	-	signal_transduction
39762	TAS2R48	NM_176888.1	531	gactgtaactactctagcaaac	243561	-	receptor_activity, gpcr,
39763	TAS2R48	NM_176888.1	725	ttctgtgtataatcaatcaact	243563	-	signal_transduction
39764	TAS2R48	NM_176888.1	559	ccctttactctgagcctaataatg	243562	-	see also 39762 line
39765	TAS2R49	NM_176889.1	757	aagatgagacaaaagaagaattgt	243577	-	see also 17523 line
39766	TAS2R49	NM_176889.1	725	ttctgtgtataatcaatcaact	243572	-	see also 17523 line
39767	TAS2R49	NM_176889.1	731	gtctaatacatatcgttttgaat	243574	-	see also 17523 line
39768	TAS2R50	NM_176890.1	721	ttctttacttctcaatcatttctc	243580	-	see also 17524 line
39769	TAS2R50	NM_176890.1	812	atcttgcatcgaactcaatc	243581	-	see also 17524 line
39770	TAS2R60	NM_177437.1	215	tggtaattgggtgaagaccattat	243586	-	see also 17525 line
39771	TAS2R60	NM_177437.1	221	tgggtgaagaccattatttcttctc	243587	-	see also 17525 line
39772	VIPR2	NM_003382.3	1023	ggcctgtgggtgaactcaatc	243615	-	see also 17526 line
39773	VIPR2	NM_003382.3	1033	gtcataagaataccgattttaat	243616	-	see also 17526 line
39774	VIPR2	NM_003382.3	1022	tgcctgtgtgggtgatacgaata	243614	-	see also 17526 line
39775	XPR1	NM_004736.2	2201	aggctcgtgacactaaggtattg	243683	-	see also 3254 line
39776	XPR1	NM_004736.2	2204	ctctgacactaaggtattgata	243685	-	see also 3254 line
39777	LFR	NM_002310.2	2112	gacttgagactaactgaattgaat	243763	-	see also 1475 line
39778	LFR	NM_002310.2	1400	tgggtcgtacacaatacaaat	243738	-	see also 1475 line
39779	GHR	NM_000163.1	1033	tagctataaaccggaattccaca	243865	-	see also 17529 line
39780	GHR	NM_000163.1	659	atgatgacccctataattgacaac	243845	-	see also 17529 line
39781	EPOR	NM_000121.2	1027	caccaccacacagggtaacttcc	243893	-	see also 17530 line
39782	EPOR	NM_000121.2	997	gagccagagagcgggtttgaag	243892	-	see also 17530 line
39783	CN1FR	NM_001842.3	601	ctgtgctgcatggctcacaatt	243897	-	see also 1189 line
39784	GFR2	NM_001495.3	1097	ctgcccctgcggacaattaccagg	243906	-	see also 17531 line
39785	GFR2	NM_001495.3	641	ctcccgctctcagacattctta	243903	-	see also 17531 line
39786	CRLF2	NM_022148.2	1000	cccaacagaccaggagaaagagg	243913	-	see also 17532 line
39787	CSF3R	NM_000760.2	1271	agcagagcggatccaaagtattgt	243924	-	see also 17533 line
39788	CSF3R	NM_000760.2	1584	ggcggagcaatagacaacagacc	243931	-	see also 17533 line
39789	EBI3	NM_005755.2	305	ggctccctagctcctaagtga	243946	-	-
39790	EBI3	NM_005755.2	307	ctccctagctcctaagtga	243947	-	-
39791	EBI3	NM_005755.2	357	agcttggctccttcataacaga	243948	-	see also 39789 line
39792	F3	NM_001993.2	793	gtgattccctcccgacacgttaa	243965	-	see also 17534 line
39793	F3	NM_001993.2	214	ggcgttcagcactacaataac	243949	-	see also 17534 line
39794	FAD104	NM_022763.2	3435	tgcgtgtcgtcgttttagaca	244061	-	see also 8458 line
39795	FAD104	NM_022763.2	1779	tcctacagacgcgtgtgcaag	244018	-	see also 8458 line
39796	IL11RA	NM_004512.3	629	ggccagaccggtgattatgtga	244077	-	see also 17536 line

図46 (続き)

1084

39797	IL11RA	NM_004512.3	631	gccagtaaccggattaatgtgact	244078	-	see also 17536 line
39798	IL13RA1	NM_001560.2	497	accagtcacgacactaactatc	244096	-	see also 17537 line
39799	IL13RA1	NM_001560.2	502	tcacgacactaactactctct	244097	-	see also 17537 line
39800	IL13RA1	NM_001560.2	280	tcacgaaactctgtctcaatag	244098	-	see also 17537 line
39801	IL20RA	NM_014432.2	1513	aggatagcttcggcatttgagg	244143	-	see also 17538 line
39802	IL20RA	NM_014432.2	1371	ccctcaatctcggagattct	244139	-	see also 17538 line
39803	IL22RA2	NM_052962.2	408	ttcagtcgccaaattttcacac	244156	-	see also 17539 line
39804	IL22RA2	NM_052962.2	389	aagctcacagggatcacattca	244153	-	see also 17540 line
39805	MGC34923	NM_144717.2	300	gtggtttttacgcattgattc	244180	-	see also 17540 line
39806	MGC34923	NM_144717.2	418	gtgatctcgccctggagaaacagt	244182	-	see also 17540 line
39807	MPL	NM_005373.1	1655	gggtcctcaggccagtaacctagg	244210	-	see also 3743 line
39808	GRIA1	NM_000827.2	185	cgcggtagtaggtgccaatctcc	244213	-	see also 528 line
39809	GRIA1	NM_000827.2	1235	cacgctcacgctgattgaaatga	244235	-	see also 528 line
39810	GRIA2	NM_000826.1	2063	tcctcctcacacggcctaactagc	244239	-	see also 524 line
39811	GRIA3	NM_000828.2	383	tcgcgtttgcgctgcagttatc	244313	-	see also 529 line
39812	GRIA3	NM_000828.2	389	ttgcogtgcagttatcacacacc	244315	-	see also 529 line
39813	GRIK1	NM_000830.2	1246	cgggttttcggctgcttaacattg	244339	-	see also 540 line
39814	GRIK1	NM_000830.2	2747	tacggagttggagacacactatgg	244425	-	see also 540 line
39815	GRIK2	NM_021956.2	234	gtctcaagctccgcaaacacagc	244440	-	see also 8216 line
39816	GRIK2	NM_021956.2	2808	aagtgccagctgcgtgtaaaaca	244514	-	see also 8216 line
39817	GRIK2	NM_021956.2	711	accgtcacggttgtagtgatga	244448	-	see also 8216 line
39818	GRIK3	NM_000831.2	2665	gtgtacaagctccgcaaacacagc	244550	-	see also 17546 line
39819	GRIK3	NM_000831.2	806	gocgggaattccgattatcttc	244529	-	see also 17546 line
39820	GRIK4	NM_014619.2	530	agctgtccggcaattccttatc	244554	-	see also 5794 line
39821	GRIK4	NM_014619.2	2442	tgggttaattcgtggccatttta	244588	-	see also 5794 line
39822	GRIK5	NM_002088.3	2496	gtggcgtgctgaggaattcatatg	244606	-	see also 1353 line
39823	GRIK5	NM_002088.3	1083	ctggcagatgtagatgatgatgg	244599	-	see also 1353 line
39824	GRIA4	NM_000829.1	1093	cactatggacgttagagtcgaatta	244642	-	see also 536 line
39825	GRIA4	NM_000829.1	167	atgctgctgggaagctcttttaat	244613	-	see also 536 line
39826	GRIA4	NM_000829.1	490	tactcgatactccaagctattat	244627	-	see also 536 line
39827	GRIK2	NM_001510.1	57	ctcggcgaatcgaggattcgatca	244675	-	see also 1034 line
39828	GRIK3A	NM_133445.1	3243	ctcattgaccgcgcaacatctcc	244814	-	see also 17551 line
39829	GRIK3A	NM_133445.1	3627	gtcagcttaccgtatggatcact	244832	-	see also 17551 line
39830	CD163	NM_004244.2	963	gacggctgggacagattacgctgc	244850	-	see also 17552 line
39831	CD163	NM_004244.2	2234	tggtaacttcctcgttgtaaatg	244872	-	see also 17552 line
39832	CD5	NM_014207.2	1402	gcctcccaagtggaatacgaata	244907	-	see also 17553 line
39833	CD5	NM_014207.2	285	ccccagtaaacgctcaaaagtct	244898	-	see also 17553 line
39834	CD5	NM_014207.2	1406	ccccagtgagatacgaatacagc	244909	-	see also 17553 line
39835	CD5L	NM_005894.1	757	gacacgtgggtcgaatgtggaaga	244919	-	see also 17554 line
39836	CD5L	NM_005894.1	271	agcagagacccctagtgtatttt	244912	-	see also 17554 line
39837	CD5L	NM_005894.1	943	ttcagagacccggaatgctatgg	244921	-	see also 17554 line
39838	CD6	NM_006725.1	968	ccggcaggtgtagtactactcagc	244924	-	see also 17555 line
39839	CD6	NM_006725.1	1114	cccgaagtcctcgaagtgttca	244928	-	see also 17555 line
39840	DMBT1	NM_004406.1	4720	aacgccgaacctggtgatttca	244976	-	see also 17556 line

図 4.6 (続き)

1085

39841	DMBT1	NM_004406.1	3819	ttctgttatcgataaacctgg	244942	-	see also 17556 line
39842	DMBT1	NM_004406.1	4220	accgtccaaacacagattatc	244963	-	see also 17556 line
39843	M160	NM_174941.2	1050	gacattccggaacogtoaat	245011	-	see also 17557 line
39844	M160	NM_174941.2	1013	tcctgtccggttaataatcttt	245007	-	see also 17557 line
39845	M160	NM_174941.2	331	agccgtgactagacatgaa	244992	-	see also 17557 line
39846	MARCO	NM_006770.2	212	atgagcccttggaaatcaatg	245079	-	see also 17558 line
39847	MARCO	NM_006770.2	207	ttgcaatggagcccttgaaatc	245078	-	see also 17558 line
39848	MSR1	NM_002445.2	368	ttgtcagttggttcaactaatg	245097	-	see also 17559 line
39849	MSR1	NM_002445.2	297	ctgtctcgaatctgtgaaatttg	245092	-	see also 17559 line
39850	SCARA3	NM_016240.2	270	cacatcggtcggtgattcttacc	245122	-	see also 6748 line
39851	SCARA3	NM_016240.2	402	ctccttgaccagctctattatg	245124	-	see also 6748 line
39852	SCARA3	NM_016240.2	467	atcggaaagccctgaacaatgc	245127	-	see also 6748 line
39853	SRCRB4D	NM_080744.1	879	tacgacacgtcggaatgga	245142	-	see also 17560 line
39854	SRCRB4D	NM_080744.1	776	ggctccacaattgcttccactac	245140	-	see also 17560 line
39855	B2M	NM_004048.2	213	tcacatcgacatgaagtga	245145	-	see also 2730 line
39856	B2M	NM_004048.2	121	atccagctgactcaaatgattca	245143	-	see also 2730 line
39857	B2M	NM_004048.2	217	tcggacattgaattgacttact	245147	-	see also 2730 line
39858	HLA-E	NM_005516.3	264	caggacacccgacagatttcc	245174	-	see also 17562 line
39859	HLA-E	NM_005516.3	490	tcggagcaaaagtcaaatgatgc	245178	-	see also 17562 line
39860	HLA-E	NM_005516.3	487	atctccgagcaaaagtcaaatga	245177	-	see also 17562 line
39861	HLA-F	NM_018950.1	1065	gtctctcacagcttaataagtg	245182	-	see also 17563 line
39862	HLA-F	NM_018950.1	1060	gggggtgtctctcacagctaa	245179	-	see also 17563 line
39863	HLA-G	NM_002127.3	744	cccaccaccctgtcttggactat	245183	-	receptor activity
39864	MR1	NM_001531.1	335	gtctcaacttaacagagaatga	245195	-	see also 17564 line
39865	MR1	NM_001531.1	118	tcacatgggtccctgaattatt	245188	-	see also 17564 line
39866	ULBP1	NM_025218.1	557	cactggggattgaagatgtgg	245211	-	receptor activity
39867	ULBP1	NM_025218.1	571	aagatgtggcttgaagaatttt	245212	-	see also 39866 line
39868	ULBP3	NM_024518.1	219	atctatgggtccactagaagagc	245218	-	see also 17565 line
39869	ULBP3	NM_024518.1	103	tggtataacttccaccatattca	245214	-	see also 17565 line
39870	CD74	NM_004355.1	501	acctgagacacttaagaacacc	245225	-	see also 17566 line
39871	HLA-DMB	NM_002118.3	782	ccctcttaaggagacacttaca	245235	-	see also 17567 line
39872	HLA-DMB	NM_002118.3	411	aagatggcccttgcgaatttgg	245229	-	see also 17567 line
39873	HLA-DOA	NM_002119.2	283	ggcggcatcggccgaatcaaaagc	245239	-	see also 17568 line
39874	HLA-DOA	NM_002119.2	440	tcgccctgtgatcaatcaacc	245241	-	see also 17568 line
39875	HLA-DOA	NM_002119.2	436	atcttccctcctgtgtatcaat	245240	-	see also 17568 line
39876	HLA-DOB	NM_002120.2	164	ggcaagcgtactgttaacttca	245246	-	see also 17569 line
39877	HLA-DOB	NM_002120.2	205	tgcaattgtgtcagattcaatc	245247	-	see also 17569 line
39878	HLA-DPA1	NM_033554.2	145	aacttatgcgcgttgttacaga	245261	-	see also 17570 line
39879	HLA-DPA1	NM_033554.2	175	accaacagggagttatgttg	245263	-	see also 17570 line
39880	HLA-	NM_002121.4	715	ctgattctgccggagtaagaca	245273	-	see also 17571 line
39881	HLA-	NM_002121.4	719	ttctgccggagtaagacattga	245274	-	see also 17571 line
39882	HLA-	NM_020056.1	206	ggcagtgccctatgttagcaaa	245277	-	see also 17572 line
39883	HLA-	NM_020056.1	96	ctcctatgggtgaactcttacc	245276	-	see also 17572 line

図46 (続き)

1086

39884	HLA-	NM_020056.1	243	cgcagagtgacactgagaaata	245279	-	see also 17572 line
39885	HLA-	NM_002123.2	785	ttcttggtctggccttatcatc	245284	-	see also 17573 line
39886	HLA-	NM_002123.2	227	ttgtgagcagaagcactataac	245283	-	see also 17573 line
39887	HLA-	NM_182549.1	273	atcagagactgggaacactataa	245286	-	see also 17574 line
39888	HLA-	NM_182549.1	274	tcgaggactgggaacactataag	245287	-	see also 17574 line
39889	HLA-DR	NM_019111.2	189	accaatcaggcgagttatgttt	245296	-	see also 17575 line
39890	HLA-DR	NM_019111.2	162	tcaggccgagttcttatctgaat	245294	-	see also 17575 line
39891	DRB3	NM_022555.3	146	ttcttgagctgcgtaagtctga	245297	-	receptor_activity, signal_transduction -
39892	TNFRSF1A	NM_001065.2	1382	ccggttcgctgggaagaattcg	245321	-	see also 17576 line
39893	TNFRSF1A	NM_001065.2	1465	gccttgccgagcgcgaatacagc	245322	-	see also 17576 line
39894	TNFRSF19	NM_018647.2	1225	aactcagagctgcactaactatga	245346	-	see also 17577 line
39895	TNFRSF19	NM_018647.2	711	ctgagctgctggttttgacaga	245334	-	see also 17577 line
39896	TNFRSF1B	NM_001066.2	626	caggcccccacacagactctgaacg	245353	-	see also 17578 line
39897	TNFRSF1B	NM_001066.2	206	atgcggctcagagataactatg	245348	-	see also 17578 line
39898	XEDAR	NM_021783.2	141	tgcctctctgcaggtaacaaag	245362	-	see also 17579 line
39899	XEDAR	NM_021783.2	142	gcctctctgcaggtaacaaagc	245363	-	see also 17579 line
39900	TNFRSF14	NM_003820.2	1016	ctcgtccagcgggaagacaggg	245377	-	see also 17580 line
39901	TNFRSF14	NM_003820.2	462	cccaagtcagtcaggttatctg	245372	-	see also 17580 line
39902	TNFRSF25	NM_003790.2	209	aagaagattgctgtttgttg	245379	-	receptor_activity, apoptosis, signal_transduction
39903	TNFRSF25	NM_003790.2	193	tgcgggactctccaaagaaga	245378	-	see also 39902 line
39904	FLJ30296	NM_173495.1	1490	ttgtgaaccccgacacacaaac	245424	-	see also 17581 line
39905	FLJ30296	NM_173495.1	1330	tacgagactaacctattgtatg	245419	-	see also 17581 line
39906	NPC1	NM_000271.1	2940	ctctctctgagctgcagctattt	245549	-	see also 17582 line
39907	NPC1	NM_000271.1	3935	agcggaacgcttcttaatttc	245584	-	see also 17582 line
39908	NPC1L1	NM_013389.1	1474	cccctcaatccggacaataacc	245599	-	see also 17583 line
39909	NPC1L1	NM_013389.1	1477	ccctcaatccggacaataacc	245600	-	see also 17583 line
39910	PTCH	NM_000264.2	1509	cgggtgcccagcgcctactact	245650	-	see also 207 line
39911	PTCH	NM_000264.2	2615	agcagactaccgaataaccagc	245666	-	see also 207 line
39912	PTCH2	NM_003738.2	2565	tcaccccgagctcttctacatgg	245696	-	see also 207 line
39913	PTCH2	NM_003738.2	2970	ctggagcgtggcctcatagtcg	245699	-	see also 2551 line
39914	XPO7	NM_015024.2	3329	cacttatggcgtgaatagcaatg	245795	-	see also 6190 line
39915	XPO7	NM_015024.2	2649	ttcagagcttttctctctatgg	245777	-	see also 6190 line
39916	CD14	NM_000591.1	484	cgctcggagccttaacataacc	245799	-	see also 17587 line
39917	CD14	NM_000591.1	482	gacgctcggagccttaacataaa	245797	-	see also 17587 line
39918	UNC5C	NM_003728.2	984	gacagaggtatcagaacgtaca	245828	-	see also 17588 line
39919	UNC5C	NM_003728.2	836	caggcccgactctctgatactgc	245822	-	see also 17588 line
39920	ROBO1	NM_002941.2	2791	acctacgcggttatcagaaagt	245941	-	see also 1975 line
39921	ROBO1	NM_002941.2	4153	agcgagcgtccagtttagtttc	245973	-	see also 1975 line
39922	ROBO1	NM_002941.2	342	ccctcgtcacaccgaattgtgc	245859	-	see also 1975 line
39923	RRBP1	NM_004587.1	2731	ctcggcatgtcgtgttaacaag	246006	-	see also 17590 line
39924	RRBP1	NM_004587.1	2407	cagcgccagtgccgaactaag	246002	-	see also 17590 line

1087

図46 (続き)

39925	AGER	NM_001136.3	582	cacactgcagtcgaggagtaattgg	246013	-	see also 17591 line		
39926	AGER	NM_001136.3	1175	agcgtgcagaactgaatacagtcg	246016	-	see also 17591 line		
39927	CD3D	NM_000732.1	249	atctaccgtgcaagttcaattatc	246030	-	see also 17592 line		
39928	CD3D	NM_000732.1	253	acctgcagaagttcaattcgaat	246031	-	see also 17592 line		
39929	CD3E	NM_000733.1	224	tactatggcaaacacaaatgataa	246041	-	see also 478 line		
39930	CD3E	NM_000733.1	433	gtgatgtcggctggccacaattgt	246047	-	see also 478 line		
39931	CD3G	NM_000073.1	276	acctcagaggatgtatcagtg	246059	-	see also 17594 line		
39932	CD3G	NM_000073.1	272	aaggaccctcgaggaggtatca	246058	-	see also 17594 line		
39933	CD79A	NM_001783.1	191	tccaatgcccgcacacaaatagcagc	246068	-	receptor activity、 signal transduction	-	-
39934	CD79B	NM_000626.1	559	cacgctgaaggatgtatcatca	246077	-	receptor activity、 signal transduction	-	-
39935	CD79B	NM_000626.1	561	cgctgaaggatgtatcatcatg	246078	-	see also 39934 line		
39936	CLDN3	NM_001306.2	748	gtcccccacgcgagagaaggtac	246081	-	see also 17595 line		
39937	CLDN3	NM_001306.2	749	tcccccacgcgagagaaggtaca	246082	-	see also 17595 line		
39938	CLDN3	NM_001306.2	751	ccccacgcgagagaaggtacacg	246083	-	see also 17595 line		
39939	CLDN4	NM_001305.3	345	ctcatggggctacagtgtaattgg	246084	-	see also 17596 line		
39940	CLDN4	NM_001305.3	911	agccttactccgcgaagtattct	246088	-	see also 17596 line		
39941	CR2	NM_001877.1	2543	gtcgcgtgattaggtgtcatact	246182	-	see also 17597 line		
39942	CR2	NM_001877.1	1162	cagaaagatagatatccctataa	246133	-	see also 17597 line		
39943	DCC	NM_005215.1	2254	aacatcgtgtgtggaggttat	246242	-	see also 17598 line		
39944	DCC	NM_005215.1	1773	caccgaatatagttcttcgattct	246230	-	see also 17598 line		
39945	DCC	NM_005215.1	2622	gacgtctgaggtgagcatttaca	246254	-	see also 17598 line		
39946	EDAR	NM_022336.1	503	cccgagcgggaatactcaactgc	246289	-	see also 17599 line		
39947	EDAR	NM_022336.1	500	cagcccgagcgggaatactcaaac	246288	-	see also 17599 line		
39948	EV12A	NM_014210.1	305	cccgctgtgggctaacagtact	246308	-	see also 17600 line		
39949	EV12A	NM_014210.1	304	acccgtctgtgggctaacagtac	246307	-	see also 17600 line		
39950	EV12A	NM_014210.1	449	ctcaaatcgtagctttaaattct	246315	-	see also 17600 line		
39951	GPC1	NM_002081.1	656	ctcagagctgcgcctgtactacc	246326	-	see also 17601 line		
39952	GPC1	NM_002081.1	1114	tgcctcatcaccggacaagtcttgg	246328	-	see also 17601 line		
39953	GPC4	NM_001448.2	279	gcccagctcaagtcgaaaaattg	246331	-	see also 1010 line		
39954	GPC4	NM_001448.2	814	gagatgtccctcgcgaattgaag	246345	-	see also 1010 line		
39955	GPC5	NM_004466.3	1240	cacatggcggagccttaatocaca	246391	-	see also 17602 line		
39956	GPC5	NM_004466.3	627	tgcgctctgcgaagatatgcago	246376	-	see also 17602 line		
39957	GPC6	NM_005708.2	1552	gacccgatagatgtcaagatttc	246421	-	see also 3961 line		
39958	GPC6	NM_005708.2	1515	gcgactggaggccattcaaca	246420	-	see also 3961 line		
39959	ICAM1	NM_000201.1	1335	gcccagctcaaggtgtcaaaag	246434	-	see also 17604 line		
39960	ICAM1	NM_000201.1	1547	gcctcagcacgtactctataaac	246438	-	see also 17604 line		
39961	IGSF6	NM_005849.1	633	aagagtgtcctggcgtattttca	246450	-	see also 17605 line		
39962	IGSF6	NM_005849.1	279	tgcctggacgggtgtcaaaagtga	246444	-	see also 17605 line		
39963	IL17RD	NM_017563.1	1701	gtcagggccggtccctatacgtcg	246483	-	see also 7033 line		
39964	IL17RD	NM_017563.1	660	gccggacaactcgtcttgaaac	246461	-	see also 7033 line		
39965	KLRA1	NM_006611.1	671	aagatgaactcgtatttataatt	246509	-	see also 17607 line		
39966	KLRA1	NM_006611.1	463	ctggatttcacgccttatcaaaa	246500	-	see also 17607 line		

chronic lymphocytic leukaemia(慢性リンパ球性
白血病)

図46 (続き)

1088

39967	KLRA1	NM_006611.1	720	ctcaatttggacctaagatatt	246510	-	see also 17607 line
39968	LRR021	NM_015613.1	1867	caggagaatacaatgagtactct	246525	-	see also 17608 line
39969	LRR021	NM_015613.1	1371	caccocaggctagaacacaaact	246520	-	see also 17608 line
39970	LTR	NM_002342.1	411	cacatgtgcagagaattcctaca	246529	-	see also 17609 line
39971	LTR	NM_002342.1	1222	ggcgggtctatgactatcactgg	246541	-	see also 17609 line
39972	LTR	NM_002342.1	1195	cacgtccaatggcattcattgt	246539	-	see also 17609 line
39973	LU	NM_005581.2	176	aaccacacacattatctctgg	246551	-	see also 17610 line
39974	LU	NM_005581.2	170	tacgggaaccacacaccattata	246547	-	see also 17610 line
39975	M6PR	NM_002355.2	900	tgcgttctaaccctgaaatgt	246571	-	see also 17611 line
39976	M6PR	NM_002355.2	610	gacacacctagcggacaatttt	246563	-	see also 17611 line
39977	M6PR	NM_002355.2	612	cacacccctagcggacaatttaa	246564	-	see also 17611 line
39978	MFRP	NM_031433.1	1150	gocggacacacatagaaactaca	246578	-	see also 17612 line
39979	MFRP	NM_031433.1	1327	gtgctgttaggacagatcatgg	246581	-	see also 17612 line
39980	NCR2	NM_004828.2	880	gactaagataagcgatgatgatg	246589	-	see also 17613 line
39981	NCR2	NM_004828.2	767	aggagcctggatccccaaaagc	246587	-	see also 17613 line
39982	NCR2	NM_004828.2	400	aggacattactagtgtgaattct	246585	-	see also 17613 line
39983	NGFR	NM_002507.1	903	gtggcccttggccctacatagc	246591	-	see also 17614 line
39984	NGFR	NM_002507.1	1216	accagcccgagcacatagaatcc	246593	-	see also 17614 line
39985	PLXN3	NM_017514.1	3193	tgcatttgaccctggctaacatct	246609	-	see also 17615 line
39986	PLXN3	NM_017514.1	2420	aacgctcgtactctctagaagg	246607	-	see also 17615 line
39987	PLXN3	NM_017514.1	5659	tgcctcaacagagctgtatttct	246620	-	see also 17615 line
39988	SARM1	NM_015077.1	747	tagcgggttgctggactaacaag	246627	-	see also 6225 line
39989	SARM1	NM_015077.1	1761	tgggtcccccacacttctgttg	246635	-	see also 6225 line
39990	SFRP1	NM_003012.2	952	aagaaaaatggcgacaagaagatt	246640	-	see also 17617 line
39991	SFRP4	NM_003014.2	758	gcccagatcgtgtcaagtgtataa	246647	-	see also 2018 line
39992	SFRP4	NM_003014.2	760	cccagatcgtgtcaagtgtataa	246649	-	see also 2018 line
39993	SFRP4	NM_003014.2	610	tgcgacgagctgctgtctatga	246644	-	see also 2018 line
39994	SFRP5	NM_003015.2	702	cgcctcagtgaccacaagatctgc	246666	-	see also 2020 line
39995	SORL1	NM_003105.3	149	gtcgcgactccgttctattca	246669	-	see also 17620 line
39996	SORL1	NM_003105.3	4434	tgcgacgggtaccagagattgtgc	246758	-	see also 17620 line
39997	SORL1	NM_003105.3	4557	caccacaagaagacgtgtattcc	246762	-	see also 17620 line
39998	TIRAP	NM_052887.2	996	acctgagctcggattcattgtact	246818	-	see also 17621 line
39999	TIRAP	NM_052887.2	1041	tgtgtgttcttcgaagtaaaag	246820	-	see also 17621 line
40000	TLR5	NM_003268.3	1846	ttcaaacatccccgatattcttc	246882	-	see also 17622 line
40001	TLR5	NM_003268.3	723	ggccgaatagctttttatcgttt	246828	-	see also 17622 line
40002	TLR5	NM_003268.3	724	ggccgaatagctttttatcgtttc	246829	-	see also 17622 line
40003	TLR7	NM_016562.2	944	gtgcgcgtgtataaaataattct	246910	-	see also 6915 line
40004	TLR7	NM_016562.2	2771	agggttatcagcgtctaatatca	246974	-	see also 6915 line
40005	TLR9	NM_017442.2	2090	accgtgcagccggagatgtttgc	246992	-	see also 17624 line
40006	TLR9	NM_017442.2	2153	tgcattctgcagcagcattcagg	246993	-	see also 17624 line
40007	TNFRSF10 C	NM_003841.2	934	atcgtaggatcatatgttttaatt	247013	-	see also 17625 line
40008	TNFRSF10 C	NM_003841.2	931	accatcgtaggatcatatgtttct	247012	-	see also 17625 line

1089

図46 (続き)

40009	TNFRSF5	NM_001250.3	261	tgcggtgaagcgaattctctaga	247016	-	see also 17626 line
40010	TNFRSF5	NM_001250.3	463	ttgggtcaagcagattgctaca	247017	-	see also 17626 line
40011	TNFRSF6	NM_000043.3	390	ttgtatgattatctccaagt	247025	-	see also 17627 line
40012	TNFRSF6	NM_000043.3	1209	aagaagcgtatgacacattgatt	247042	-	see also 17627 line
40013	TNFRSF7	NM_001242.3	444	agctgtcggcagcttaactctgg	247048	-	see also 17628 line
40014	TNFRSF7	NM_001242.3	828	ctccatacaaggaagaatatag	247054	-	see also 17628 line
40015	TNFRSF7	NM_001242.3	829	tcatacaacgaagaataataga	247055	-	see also 17628 line
40016	TNFRSF8	NM_001243.2	1593	cgcggaagagcgggtaatga	247061	-	see also 17629 line
40017	TNFRSF8	NM_001243.2	1740	cacggagcacaccaatacaaga	247063	-	see also 17629 line
40018	WSX1	NM_004843.2	1579	gggtccctatcagaatcactgt	247078	-	see also 17630 line
40019	WSX1	NM_004843.2	916	cagttccactaccgaagatgca	247088	-	see also 17630 line
40020	LOC51036	NM_015854.1	388	caggcgggaacaccgttttccaag	247089	-	see also 17631 line
40021	LOC51036	NM_015854.1	133	agcaaacagctgcagtaaatca	247084	-	see also 17631 line
40022	LY96	NM_015364.2	164	aactcactcagatcaagatttc	247090	-	see also 17632 line
40023	LY96	NM_015364.2	384	atgcacgattactcttttgcaga	247098	-	see also 17632 line
40024	LY96	NM_015364.2	546	tcctacacacacctaattcaaat	247102	-	see also 17632 line
40025	PVRL1	NM_002855.2	1499	ctcagaagcagcgggtctttcatt	247113	-	see also 1887 line
40026	PVRL1	NM_002855.2	544	tgggaactcgggttaaaaggatga	247108	-	see also 1887 line
40027	PVRL2	NM_002856.1	1164	cgcgctgagcaggctcatctttgt	247120	-	see also 17634 line
40028	PVRL2	NM_002856.1	1102	cagtggaacagctctgttcaatcc	247117	-	see also 17634 line
40029	ZIP2	NM_003460.1	2012	gtctgcactctcagatcaaaa	247171	-	see also 2347 line
40030	ZIP2	NM_003460.1	1556	tcctccgaacacaaattacatg	247160	-	see also 2347 line
40031	ZIP2	NM_003460.1	2014	gtcggctcactctgatataaagc	247172	-	see also 2347 line
40032	CR1	NM_000573.2	4329	tcctacgatcccaattaatgact	247183	-	see also 17636 line
40033	CR1	NM_000573.2	3988	aaggcagctcctgtagctattg	247178	-	see also 17636 line
40034	ITPR1	NM_002222.1	308	tacggcgaaggatcgacaaatgg	247230	-	see also 1411 line
40035	ITPR1	NM_002222.1	4649	accgaaatcgctcagtgattgt	247301	-	see also 1411 line
40036	ITPR1	NM_002222.1	4648	caccgaaatcgctcagtgattgt	247300	-	see also 1411 line
40037	ITPR2	NM_002223.1	7592	ggcgcctctatttctaaactgc	247558	-	see also 17638 line
40038	ITPR2	NM_002223.1	1123	aggagggagcgtttagattat	247386	-	see also 17638 line
40039	PLAUR	NM_002659.1	1170	cggcactcacgaacgaaaaacc	247591	-	see also 17639 line
40040	PLAUR	NM_002659.1	760	agcgttacctcgaatgcatttc	247585	-	see also 17639 line
40041	PLAUR	NM_002659.1	761	gcccgtaccctcgaatgcatttc	247586	-	see also 17639 line
40042	AHSA2	NM_152392.1	1683	gtgcoactgggttaaggattcc	247598	-	see also 17640 line
40043	AHSA2	NM_152392.1	1888	tacaattgaaggattctctatct	247606	-	see also 17640 line
40044	AIPL1	NM_014336.2	110	accggatcccgagtgatcttcca	247614	-	see also 17641 line
40045	AIPL1	NM_014336.2	85	cacggcagcgtcccaaaactca	247611	-	see also 17641 line
40046	ANTXR1	NM_018153.2	983	gtgtccagcgcctctctaaag	247643	-	see also 17642 line
40047	ANTXR1	NM_018153.2	795	aagtcctgcacgaattcttagc	247635	-	see also 17642 line
40048	BTN1A1	NM_001732.1	431	gggagtaacagtcttttcaagg	247656	-	see also 17643 line
40049	BTN1A1	NM_001732.1	720	gtcctgtacatccagaattctcc	247660	-	see also 17643 line
40050	BTN3A2	NM_007047.2	1227	gtcttctgtcgtaccataaagt	247670	-	see also 17644 line
40051	BTN3A2	NM_007047.2	1231	tcgtccatacccaataagtcagc	247671	-	see also 17644 line
40052	BTNL3	NM_006707.2	1059	gtggacgtggggacaaaatgtagg	247683	-	see also 17645 line

図 46 (続き)

1090

40053	BTNL3	NM_006707.2	474	ttaagttccacgattacgatga	247676	-	see also 17645 line
40054	C6orf33	NM_133367.1	611	tggcgtgagcgtttaccatattg	247697	-	see also 17646 line
40055	C6orf33	NM_133367.1	612	ggcgtgagcgtttaccatattg	247698	-	see also 17646 line
40056	C6orf80	NM_015439.2	396	tggcgtgagcgtttaccatattg	247712	-	see also 17647 line
40057	C6orf80	NM_015439.2	557	aacttcacagcgcacaaagttaa	247714	-	see also 17647 line
40058	CD160	NM_007053.1	322	aaggaacgcgactaaacttaact	247722	-	see also 17648 line
40059	CD160	NM_007053.1	327	acgcgactaaacttaacttctac	247724	-	see also 17648 line
40060	CD200R	NM_138806.2	309	ctctctcgcattagaatttgg	247746	-	see also 17649 line
40061	CD200R	NM_138806.2	305	tgcctcctcgcattagaataa	247743	-	see also 17649 line
40062	CD200R	NM_138806.2	306	gcctcctcgcattagaataa	247744	-	see also 17649 line
40063	CD36	NM_000072.1	803	tggccataatcgacacatatata	247797	-	see also 48 line
40064	CD36	NM_000072.1	389	agcaaaagagctcttatacgtac	247780	-	see also 48 line
40065	CD7	NM_006137.5	706	tgcctcgtggcggagtaagaattc	247827	-	see also 17651 line
40066	CD7	NM_006137.5	200	tggagagcctcgcctaacatcac	247822	-	see also 17651 line
40067	CD86	NM_006889.2	950	agcgccctcgcaactcttataaa	247861	-	see also 17652 line
40068	CD86	NM_006889.2	799	aagacgcggctttttcttcacc	247855	-	see also 17652 line
40069	CNGB1	NM_001297.1	3419	ggggcaaaagcggcaaaccttgc	247892	-	see also 17653 line
40070	CNGB1	NM_001297.1	2208	gggacacattacgggacaaaag	247878	-	see also 17653 line
40071	CNGB3	NM_019098.2	1565	cagttgacctcgccttctgt	247952	-	see also 7704 line
40072	CNGB3	NM_019098.2	956	gtcgcatcaataatcatttga	247932	-	see also 7704 line
40073	CNTNAP1	NM_003632.1	1155	acctggcctcgcgcataacttc	247986	-	see also 17655 line
40074	CNTNAP1	NM_003632.1	730	ggcgcacatactctatttcgagc	247982	-	see also 17655 line
40075	CNTNAP1	NM_003632.1	1288	cccggtacccgacctcaact	247992	-	see also 17655 line
40076	GR13	NM_139017.3	639	tgcgtaagaacgcgtaaggataa	248052	-	see also 17656 line
40077	GR13	NM_139017.3	1330	aagttggcagccatattccatc	248073	-	see also 17656 line
40078	GR13	NM_004750.2	1152	ggcatctatggctccaaagaagc	248096	-	receptor activity
40079	GR13	NM_015986.2	903	tgcgtaagaacgcgtaaggataa	248116	-	see also 6596 line
40080	GR13	NM_015986.2	1217	cacttcagccttcgagtaactat	248124	-	see also 6596 line
40081	GR13	NM_015986.2	1128	atcagttaccgcgagttactct	248120	-	see also 6596 line
40082	CRSP3	NM_004830.2	3222	ggagagacgcgcatttctcaaac	248226	-	see also 17658 line
40083	CRSP3	NM_004830.2	4151	aacttcgcttcgattcctcaaca	248265	-	see also 17658 line
40084	CRSP6	NM_004268.3	654	ctcagaagttgcaattgatatct	248279	-	see also 2866 line
40085	CRSP6	NM_004268.3	652	tcctcagacgttgcatttgatat	248278	-	see also 2866 line
40086	DKFZP434	NM_032137.2	1961	tggacgacaaaggtgataagatg	248338	-	see also 17660 line
40087	DKFZP434	NM_032137.2	1032	ctgccttaccagctgatctacc	248321	-	see also 17660 line
40088	DNAJ	NM_032364.4	783	atcgctggctcggaaacgaagt	248375	-	see also 17661 line
40089	DNAJ	NM_032364.4	2060	ttagtcgcatcttcaagtacc	248403	-	see also 17661 line
40090	EBAG9	NM_004215.3	761	atggagacacaggtttcttagt	248416	-	see also 2822 line
40091	EBAG9	NM_004215.3	405	caccagtttcggttatttaaat	248404	-	see also 2822 line
40092	EPS8	NM_004447.3	1802	atgcgcataatagataagaattat	248463	-	see also 2981 line
40093	EPS8	NM_004447.3	1890	cagtgagctcgtggttctaaagg	248466	-	see also 2981 line
40094	EPS8L1	NM_017729.2	517	gacgcagtagagagctttgtatc	248502	-	see also 17664 line

図46 (続き)

1091

40095	EPS8L1	NM_017729.2	963	cccatacagacccgagttcttca	248503	-	see also 17664 line
40096	EPS8L2	NM_022772.2	1948	agcaggccggtcagaagactagg	248519	-	see also 17665 line
40097	EPS8L2	NM_022772.2	1627	ggcagcagtcataagaactcc	248518	-	see also 17665 line
40098	EPS8L3	NM_024526.2	1072	tgccctgagctcgtacacatcc	248524	-	see also 17666 line
40099	EPS8L3	NM_024526.2	984	cccaggcacagatcattgactgc	248523	-	see also 17666 line
40100	FORH1	NM_052938.3	1207	ttcactggcgtactataaccagc	248552	-	see also 17667 line
40101	FORH1	NM_052938.3	1280	aaggttctcttagacatctattc	248556	-	see also 17667 line
40102	FEM1B	NM_015322.2	865	ttcgacgggtatgctcattgatgg	248563	-	see also 6354 line
40103	FEM1B	NM_015322.2	2344	aagactccgctgagacaaaagtaac	248599	-	see also 6354 line
40104	FKSG87	NM_032029.1	1124	cacaagcaacccagttttctaag	248615	-	see also 17669 line
40105	FKSG87	NM_032029.1	1030	ggggctcaggatagcctcttgatgc	248614	-	see also 17669 line
40106	FLJ10587	NM_018149.2	957	gagtcgtgtcttgactaatcaga	248635	-	see also 7284 line
40107	FLJ10587	NM_018149.2	955	aagagtcgtgtcttgactaatca	248634	-	see also 7284 line
40108	FLVCR	NM_014053.1	242	gacacccgctcgcgaagagatac	248698	-	see also 17671 line
40109	FLVCR	NM_014053.1	1142	cccctgaagagtagctactataag	248705	-	see also 17671 line
40110	FLVCR	NM_014053.1	1249	gtctcaacgtatttaacataaat	248711	-	see also 17671 line
40111	FRAG1	NM_014489.1	912	tacttcggcacaacatgtatgg	248729	-	see also 17672 line
40112	FRAG1	NM_014489.1	896	ctcgccgctggctgctactcttc	248727	-	see also 17672 line
40113	FREB	NM_032738.2	290	aggtcagcgtggctgctacttcagt	248733	-	see also 17673 line
40114	FREB	NM_032738.2	591	ggctatcacagctcacaagaactgt	248736	-	see also 17673 line
40115	GAC1	NM_006338.1	1737	aaccggaacccgagatctactgg	248753	-	see also 17675 line
40116	GAC1	NM_006338.1	809	ggcagcctacagggaactctatct	248746	-	see also 17675 line
40117	GFR1	NM_005264.2	1762	tccaatgtctcggggcaatacaca	248776	-	see also 3701 line
40118	GFR1	NM_005264.2	1408	ctcgccctactcgggggttttgg	248770	-	see also 3701 line
40119	GFR1	NM_005264.2	943	ttccgggtggtcccatctatc	248761	-	see also 3701 line
40120	GFR4	NM_022139.2	504	cacgcccgtcacccctactacg	248783	-	see also 17677 line
40121	GOSR1	NM_004871.1	151	cggacaggtatagttctcgatgc	248788	-	see also 17678 line
40122	GOSR1	NM_004871.1	703	ctcatctaggggggtgtttatgg	248812	-	see also 17678 line
40123	GPA33	NM_005814.1	950	cacagacacatcggggtactaca	248824	-	see also 17679 line
40124	GPA33	NM_005814.1	492	tccagtcgagaggagcttattca	248815	-	see also 17679 line
40125	GYPB	NM_002100.2	226	taccagctcctgtgtgataata	248826	-	see also 17680 line
40126	HAVCR1	NM_012206.1	1003	aaggaggttcaacaactaagtgt	248848	-	see also 17681 line
40127	HAVCR1	NM_012206.1	794	caccattgtactcttacacaaca	248841	-	see also 17681 line
40128	HAVCR2	NM_032782.2	681	ctctagattggccaatgacttac	248868	-	see also 17682 line
40129	HAVCR2	NM_032782.2	922	accattgaagagaacgtatatga	248871	-	see also 17682 line
40130	IL23R	NM_144701.2	1474	cccgaacactcgcgtattcgaca	248918	-	see also 17683 line
40131	IL23R	NM_144701.2	1481	aactcgtattcgacaactactac	248919	-	see also 17683 line
40132	IMPJ1	NM_001563.2	1797	tacagtatatcaccactagttct	248963	-	see also 17684 line
40133	IMPJ1	NM_001563.2	1035	tgaacttaccggccatctttaag	248949	-	see also 17684 line
40134	ITGA2B	NM_000419.2	1092	ggcgaagtggggcggtgtgtattt	249011	-	see also 17685 line
40135	ITGA2B	NM_000419.2	856	tcgacggggatctcaacactaca	249004	-	see also 17685 line
40136	ITGA3	NM_002204.1	2359	ctcgttagctagtgtaaatcacc	249036	-	see also 17686 line
40137	ITGA3	NM_002204.1	756	agcgaaggaagtgggaacttatct	249024	-	see also 17686 line
40138	ITGA4	NM_000885.2	3185	aacgactctacatgctcaactac	249109	-	see also 576 line

1092

図46 (続き)

40139	ITGA4	NM_000885.2	3486	gaggtaagctgactgtttcatgg	249121	-	see also 576 line
40140	ITGA5	NM_002205.1	2836	tcagatgtctggcgcaagacttgc	249173	-	see also 17688 line
40141	ITGA5	NM_002205.1	2276	cctcatctcgggacacactaaga	249167	-	see also 17688 line
40142	ITGA6	NM_000210.1	426	tgcaacgagatcgagtttgataa	249180	-	see also 17689 line
40143	ITGA6	NM_000210.1	432	cggatcgagtttgataacgatgc	249183	-	see also 17689 line
40144	ITGA7	NM_002206.1	2549	tgcaacgagccggtcttctcattg	249234	-	see also 1407 line
40145	ITGA7	NM_002206.1	930	ttggccctcaatgactacttagg	249279	-	see also 1407 line
40146	ITGA9	NM_002207.1	1759	atcagcccgatcggtttgaagc	249326	-	see also 17691 line
40147	ITGA9	NM_002207.1	868	ggcatcgccaaggtttatattt	249311	-	see also 17691 line
40148	ITGB2	NM_000211.1	1853	gocggtgcgctgcaacgatgc	249354	-	see also 17692 line
40149	ITGB2	NM_000211.1	447	ccccatcacctgtactacttga	249347	-	see also 17692 line
40150	ITGB3	NM_000212.1	2344	cagctctaccttcaaccaatca	249392	-	see also 161 line
40151	ITGB3	NM_000212.1	846	atgccaaagactcatatagcattg	249377	-	see also 161 line
40152	ITGB4	NM_000213.2	3968	aacgatgacaaccacactattgg	249415	-	see also 17694 line
40153	ITGB4	NM_000213.2	521	cccggtgaggagcgccatttga	249393	-	see also 17694 line
40154	ITGB4	NM_000213.2	674	ctcaccagcgactacacactattgg	249395	-	see also 17694 line
40155	ITGB5	NM_002213.3	891	gaccaatccgtgcatgtgtaca	249434	-	see also 17695 line
40156	ITGB5	NM_002213.3	1420	facaatagtagtcggctcaaatg	249451	-	see also 17695 line
40157	ITGB5	NM_002213.3	359	ggctgcgaggtctcaacatatgc	249428	-	see also 17695 line
40158	ITGB6	NM_000888.3	596	gccaaaccttgacagtatttcc	249478	-	see also 578 line
40159	ITGB6	NM_000888.3	604	ttgcagtagtattccactttct	249482	-	see also 578 line
40160	ITGB7	NM_000889.1	714	ctgtgcatttggtttgttcc	249523	-	see also 17697 line
40161	ITGB7	NM_000889.1	1992	gtggcgatggacgctgcaaatgc	249539	-	see also 17697 line
40162	ITGB8	NM_002214.1	1243	ttggctcattcgttgataaaca	249567	-	see also 17698 line
40163	ITGB8	NM_002214.1	1182	tcggtggaaacagattatctag	249562	-	see also 17698 line
40164	ITPR3	NM_002224.1	6173	cacgtgaagtgggcccataacac	249656	-	see also 17699 line
40165	ITPR3	NM_002224.1	6600	ccgcagcatgcccgtgtactact	249663	-	see also 17700 line
40166	KDEL3	NM_006855.2	392	atgggaaattccgtaaaactttt	249675	-	see also 17700 line
40167	KDEL3	NM_006855.2	698	tcgtgtctggagtagtagcaaac	249682	-	see also 17701 line
40168	KIAA1985	NM_024577.2	180	aactgtatcgagtgagtgatag	249686	-	see also 17701 line
40169	KIAA1985	NM_024577.2	359	aggagggtcgccatgctgtttaag	249691	-	see also 17701 line
40170	KIR2DL5	NM_020535.1	205	ctctcgttgggtttaccatct	249733	-	receptor activity -
40171	KIR2DL5	NM_020535.1	351	accacgctccccattgagtgg	249734	-	see also 40170 line
40172	LILRB2	NM_005874.1	464	ggcgatatggctgtcagttatc	249736	-	receptor activity -
40173	LIMR	NM_018113.1	607	ctccctccctcggaactactaca	249739	-	see also 7259 line
40174	LIMR	NM_018113.1	1083	cccgagatctgtaactact	249746	-	see also 7259 line
40175	LOC14345	NM_174902.2	228	ggcccaaggtcagtcgaaatgt	249752	-	see also 17703 line
40176	LOC14345	NM_174902.2	230	cccaaggctgaatcgaaatgtgg	249753	-	see also 17703 line
40177	LOC14345	NM_174902.2	728	gtcacctacacgtcaataatgg	249758	-	see also 17703 line
40178	LOC15843	NM_138497.1	610	cacaaactcgtctcctaataag	249762	-	see also 17704 line
40179	LOC15843	NM_138497.1	616	ctcgtctcctaataagtaacc	249763	-	see also 17704 line
40180	LRP3	NM_002333.1	458	ggcaccgtggtgacatgattac	249766	-	see also 17705 line
40181	LRP3	NM_002333.1	381	agcgcggtgggtcactacacag	249764	-	see also 17705 line
40182	LRP5	NM_002335.1	4338	ccgcacgtggccctcaatttca	249800	-	see also 17706 line

図46 (続き)

1093

40183	LRP5	NM_002335.1	1191	cgcgtatagggctatctact	249780	-	see also 17706 line
40184	LRP5	NM_002335.1	2601	gacgcagctacagcattatct	249784	-	see also 17706 line
40185	MAML2	NM_032427.1	2792	ggcagcggccagtgaaagta	249825	-	see also 17707 line
40186	MAML2	NM_032427.1	3617	ctgctgacgcgggaaatgc	249829	-	see also 17707 line
40187	MCC	NM_002387.1	2394	acgccattgctcgagaaaga	249885	-	see also 17708 line
40188	MCC	NM_002387.1	1889	tgccacacggagttcctaaga	249882	-	see also 17708 line
40189	MCP	NM_002389.3	940	ctcattggcagcacacaattg	249925	-	see also 17709 line
40190	MCP	NM_002389.3	607	agcgttaagcccccataatgtga	249912	-	see also 17709 line
40191	MCP	NM_002389.3	497	atgggaattacaggttggttat	249906	-	see also 17709 line
40192	MED6	NM_005466.1	331	cactgctgattactatcatt	249951	-	see also 3809 line
40193	MED6	NM_005466.1	57	ggcgtgatatcogagacaat	249940	-	see also 3809 line
40194	MGC33974	NM_153350.2	824	cgcaggcctcagggttcttg	249959	-	see also 17711 line
40195	MGC33974	NM_153350.2	1583	caccocccagctctcaagtatt	249961	-	see also 17711 line
40196	MGC4766	NM_031451.3	1097	aactogatgctctcaaggaaac	249978	-	see also 17712 line
40197	MGC4766	NM_031451.3	727	cagatccagccaatattttaac	249971	-	see also 17712 line
40198	MIP-T3	NM_015650.2	1256	acggcagatccaaaattcagtg	249998	-	see also 17713 line
40199	MIP-T3	NM_015650.2	382	acgcagagatgaagtctgata	249981	-	see also 17713 line
40200	MMD	NM_012329.1	764	accgaagctctacggacttatg	250037	-	see also 5280 line
40201	MMD	NM_012329.1	95	atcgattccagcgggtcatgaac	250014	-	see also 5280 line
40202	MPRA	NM_178422.2	750	tagtctgtggtgcagctgat	250048	-	see also 17715 line
40203	MPRA	NM_178422.2	988	gagcccccagcccccactatga	250050	-	see also 17715 line
40204	MS4A4A	NM_024021.2	523	caggatatttaatacaacacatt	250061	-	see also 17716 line
40205	MS4A4A	NM_024021.2	582	aactactatggcaactcaataa	250064	-	see also 17716 line
40206	MS4A5	NM_023945.2	174	gccacgaactttcaactcaaa	250074	-	see also 17717 line
40207	MS4A5	NM_023945.2	524	tgtgtatttctcaacaaata	250081	-	see also 17717 line
40208	MS4A5	NM_023945.2	432	tggcgcgaataatgaatttt	250079	-	see also 17717 line
40209	MS4A6A	NM_022349.2	354	aacatctacacgcagaaatcaa	250085	-	see also 17718 line
40210	MS4A6A	NM_022349.2	524	atcattctggctctctcaat	250087	-	see also 17718 line
40211	MS4A6E	NM_139249.2	266	gtgtaagttggacgaaaggata	250094	-	receptor activity、 signal transduction
40212	MS4A6E	NM_139249.2	270	aagttggacgaaaggataacc	250095	-	see also 40211 line
40213	MS4A6E	NM_139249.2	231	gtcaacccggctgcattaaatcc	250093	-	see also 40211 line
40214	MS4A7	NM_021201.3	623	gccttattggagtgactatttc	250109	-	see also 17719 line
40215	MS4A7	NM_021201.3	629	tgcggagtactattccaat	250110	-	see also 17719 line
40216	MS4A8B	NM_031457.1	702	gcctaccgccactattctcta	250132	-	see also 17720 line
40217	MS4A8B	NM_031457.1	295	ctcagtgccctgtatccaac	250121	-	see also 17720 line
40218	NGR1	NM_004829.3	259	ccccctgagcggaatacaaaagt	250140	-	see also 17722 line
40219	NGR1	NM_004829.3	258	acccctctgagcggaatacaaa	250139	-	see also 17722 line
40220	NGR1	NM_004829.3	726	cacttggggcaccctctttaa	250147	-	see also 17722 line
40221	NGR3	NM_147130.1	732	ggcgagcaccgtctattaccagg	250152	-	see also 17723 line
40222	NGR3	NM_147130.1	275	tgtgtgtctactatttgcattg	250150	-	see also 17723 line
40223	NECL1	NM_021189.2	466	agcccttcagataatcgattc	250154	-	see also 17724 line
40224	NECL1	NM_021189.2	467	gccccttcagataatcgattc	250155	-	see also 17724 line
40225	NGRH1	NM_178570.1	687	caccatctctacctgttcaaca	250167	-	receptor activity

1094

図46 (続き)

40226	NGRH2	NM_178568.1	921	agcgtcccccgcaccagatcaagt	250170	-	see also 17725 line
40227	NGRH2	NM_178568.1	115	agctgcacggcgcacaacttgc	250168	-	see also 17725 line
40228	NISCH	NM_007184.1	652	tgcggttcgacctcaatttc	250185	-	see also 17726 line
40229	NISCH	NM_007184.1	3962	tagtcggtcgaatttcaactacc	250213	-	see also 17726 line
40230	NKIR	NM_139018.2	828	tgcgaagaggaggacatttctat	250218	-	receptor_activity -
40231	NKIR	NM_139018.2	419	tactggtgtggaattgagaaac	250215	-	see also 40230 line
40232	NKIR	NM_139018.2	829	gcgaagaggagacatttctatg	250219	-	see also 40230 line
40233	NPTXR	NM_014293.2	1047	tcccatctcgtaacactaactatg	250221	-	receptor_activity -
40234	NPTXR	NM_014293.2	1597	ggcctttgggggtgcacaagaag	250223	-	see also 40233 line
40235	NPTXR	NM_014293.2	1436	accctgggtggcgggtttgtgc	250222	-	see also 40233 line
40236	OGFRL1	NM_024576.2	1020	tgcggttcgcccagaacactaac	250244	-	see also 17727 line
40237	OGFRL1	NM_024576.2	1063	ctggggaccgctctgaaagaac	250248	-	see also 17727 line
40238	OSCAR	NM_130771.1	479	tcagcccaaggggggaattacc	250262	-	see also 17728 line
40239	OSCAR	NM_130771.1	478	ctccagcccaaggggggaattac	250261	-	see also 17728 line
40240	PILRA	NM_013439.2	398	cacagctcccagcgtgagaatat	250264	-	see also 17729 line
40241	PILRA	NM_013439.2	935	cacagagagagccatagagaata	250267	-	see also 17729 line
40242	PILRB	NM_013440.3	3077	tggctgtgctgtgctcaaaact	250270	-	receptor_activity, kinase related -
40243	PKHD1	NM_138694.2	685	cccatggttoaccaagtattacc	250285	-	see also 17730 line
40244	PKHD1	NM_138694.2	9152	tccagctgacgtatcatgtagg	250470	-	see also 17730 line
40245	PLXDC1	NM_020405.3	846	ggctatggatggccttcattgatt	250553	-	see also 7865 line
40246	PLXDC2	NM_032812.7	1551	accgagtagagctacaaatgta	250581	-	see also 17732 line
40247	PLXDC2	NM_032812.7	664	ggcgcgtcagaggattgtttac	250560	-	see also 17732 line
40248	PLXNB3	NM_005393.1	4872	gaccctatcgagcagaacttga	250609	-	see also 17733 line
40249	PLXNB3	NM_005393.1	248	atcgcttctccgcacctatacc	250596	-	see also 17733 line
40250	PLXND1	NM_015103.1	3811	cacgagtagaccgggtcgaagatag	250632	-	see also 17734 line
40251	PLXND1	NM_015103.1	5718	ggcgtcagcagagcagaagatga	250841	-	see also 17734 line
40252	PLXND1	NM_015103.1	2645	tcgcgtcagcctccaactaaag	250625	-	see also 17734 line
40253	PORIMIN	NM_052932.1	742	ggcattoggtatgcaccataga	250658	-	see also 17735 line
40254	PORIMIN	NM_052932.1	748	cggatcgaaacctagaagaaca	250660	-	see also 17735 line
40255	PPF1A1	NM_003626.2	337	agggaacgcctcttctgtacact	250662	-	see also 17736 line
40256	PPF1A1	NM_003626.2	460	caggagtttcgcagcaactactaa	250665	-	see also 17736 line
40257	PROCR	NM_006404.3	215	ctgtctggctggccctttgttag	250721	-	see also 17737 line
40258	PROCR	NM_006404.3	746	cagtatgtgcagaacatatttc	250722	-	see also 17737 line
40259	PRV1	NM_020406.1	670	atcggggggaccacacattatgaca	250726	-	see also 17738 line
40260	PRV1	NM_020406.1	154	ggcaatggaccacctaaagaacacc	250725	-	see also 17738 line
40261	PSK-1	NM_012410.1	1108	ccctatccccctgtgatctatga	250736	-	see also 17739 line
40262	PSK-1	NM_012410.1	2493	cagtggttttacatctactaca	250750	-	see also 17739 line
40263	PTDSR	NM_015167.1	824	tcctcaatctgcacactactac	250780	-	see also 6261 line
40264	PTDSR	NM_015167.1	683	agcaagacgaagctattactctgg	250772	-	see also 6261 line
40265	PVR	NM_006505.2	435	gtccaaacggctggaattctgtgg	250781	-	see also 17740 line
40266	PVR	NM_006505.2	989	agcccaagggctataattggagc	250785	-	see also 17740 line

1095

図46 (続き)

									receptor_activity、 signal_transduction	receptor	
40267	RAMP1	NM_005855.1	107	tgctgcagcaggaggaactaactag	250792	-	-	-	-	-	-
40268	RAMP2	NM_005854.1	315	tgggcgaactggcccatgtag	250799	-	-	-	see also 17741 line	-	-
40269	RAMP2	NM_005854.1	544	tctcatcaactctgtgtatg	250800	-	-	-	see also 17741 line	-	-
40270	RAMP3	NM_005856.1	207	tccaggttcaactgtactatga	250802	-	-	-	see also 17742 line	-	-
40271	RAMP3	NM_005856.1	206	gtcaggttcaactgtactatg	250801	-	-	-	see also 17742 line	-	-
40272	RAMP3	NM_005856.1	382	tctcatccgctgtatgattata	250805	-	-	-	see also 17742 line	-	-
40273	RAMP3	NM_005856.1	2114	ttcacatctgtgtactaaatga	250839	-	-	-	see also 17743 line	-	-
40274	RAMP3	NM_005856.1	1624	cgcgtatgtgacaaatgcttc	250829	-	-	-	see also 17743 line	-	-
40275	RAMP3	NM_005856.1	1201	ctgtctgagcggagagcattacc	250848	-	-	-	see also 17744 line	-	-
40276	RAMP3	NM_005856.1	665	cgtatgtcccaacaacatgata	250845	-	-	-	see also 17744 line	-	-
40277	RAMP3	NM_005856.1	930	tccacatacccggtatgaattt	250854	-	-	-	see also 17745 line	-	-
40278	RAMP3	NM_005856.1	929	gtccacatacccggtatgaattt	250853	-	-	-	see also 17745 line	-	-
40279	RAMP3	NM_005856.1	1274	gtggagcgcgtacaaatgatg	250880	-	-	-	see also 17746 line	-	-
40280	RAMP3	NM_005856.1	1275	tggagcgcgtacaaatgatgc	250881	-	-	-	see also 17746 line	-	-
40281	RAMP3	NM_005856.1	1268	cccaggttccaaatcacagagt	250913	-	-	-	see also 17747 line	-	-
40282	RAMP3	NM_005856.1	734	atcgtctacagtaacatttgg	250929	-	-	-	see also 5026 line	-	-
40283	RAMP3	NM_005856.1	1724	gtctactactgttctcaacagg	250966	-	-	-	see also 5026 line	-	-
40284	RAMP3	NM_005856.1	1191	cgcctctacagtaacatttgg	250990	-	-	-	see also 17749 line	-	-
40285	RAMP3	NM_005856.1	1637	gcccacgcgcgtacaaatgatg	250996	-	-	-	see also 17749 line	-	-
40286	RAMP3	NM_005856.1	11085	cacgacacggcgatgaacatgt	251083	-	-	-	see also 17750 line	-	-
40287	RAMP3	NM_005856.1	280	cactagcaacgcgagatgtgc	250997	-	-	-	see also 17750 line	-	-
40288	RAMP3	NM_005856.1	676	gacaaatctggtatttgcgta	251123	-	-	-	see also 17751 line	-	-
40289	RAMP3	NM_005856.1	566	tggcgaaactgccttcacgaac	251119	-	-	-	see also 17751 line	-	-
40290	RAMP3	NM_005856.1	905	atgtttcagggcccgatattct	251148	-	-	-	see also 3847 line	-	-
40291	RAMP3	NM_005856.1	1607	gtcgaactgaagtcattgataac	251180	-	-	-	see also 3847 line	-	-
40292	RAMP3	NM_005856.1	1175	accggtgagacccaaagtgagc	251185	-	-	-	see also 17753 line	-	-
40293	RAMP3	NM_005856.1	2213	aacggacgcccagcgaacaaatcg	251193	-	-	-	see also 17753 line	-	-
40294	RAMP3	NM_005856.1	784	tacacactgcgtatatactttgt	251207	-	-	-	see also 17754 line	-	-
40295	RAMP3	NM_005856.1	778	ggcgaataccactgcgtatatac	251206	-	-	-	see also 17754 line	-	-
40296	RAMP3	NM_005856.1	1528	cccagacccgctgctgaacttc	251233	-	-	-	see also 17755 line	-	-
40297	RAMP3	NM_005856.1	666	agcggactgtcaaaactacatc	251223	-	-	-	see also 17755 line	-	-
40298	RAMP3	NM_005856.1	209	aaccttgcgcggtgaagacagt	251244	-	-	-	see also 17756 line	-	-
40299	RAMP3	NM_005856.1	2613	acccttgcgcggtgaagacagt	251263	-	-	-	see also 17756 line	-	-
40300	RAMP3	NM_005856.1	926	cagcgcacttcccttcaactgt	251264	-	-	-	see also 17757 line	-	-
40301	RAMP3	NM_005856.1	1778	ctcgttaaccccaatagacaaca	251278	-	-	-	see also 17757 line	-	-
40302	RAMP3	NM_005856.1	888	ctcacaagcgcgtataaagtc	251311	-	-	-	see also 2862 line	-	-
40303	RAMP3	NM_005856.1	962	agcagagatggagacagcttttg	251312	-	-	-	see also 2862 line	-	-
40304	RAMP3	NM_005856.1	1505	ctgctgtgtatcacagattca	251341	-	-	-	see also 17759 line	-	-
40305	RAMP3	NM_005856.1	1639	ctgctgtcaagcgcacacacag	251347	-	-	-	see also 17759 line	-	-
40306	RAMP3	NM_005856.1	3592	cacctgtctgtactactact	251397	-	-	-	see also 17760 line	-	-
40307	RAMP3	NM_005856.1	1879	agcgtgtccacatcatatt	251380	-	-	-	see also 17760 line	-	-
40308	RAMP3	NM_005856.1	2098	gtcagcgtcgtactgtgattcc	251411	-	-	-	see also 7642 line	-	-

図 46 (続き)

1096

40309	SEMA5B	NM_018987.1	2317	gccggagggaacggtctctaata	251412	-	see also 17642 line	-
40310	SH120	NM_016334.1	782	ttctggggaatgataaaagtgt	251422	-	receptor activity,	-
40311	SH120	NM_016334.1	775	atcagggttctggggaatgataa	251421	-	kinase related	-
40312	SLAMF6	NM_052931.3	859	tcgcgaaggaaacctagatgtgt	251441	-	see also 40310 line	-
40313	SLAMF6	NM_052931.3	858	gtcgcgaaggaaacctagatgtgt	251440	-	see also 17761 line	-
40314	SLAMF6	NM_052931.3	276	tcgcgaagaatccagtgactaatc	251428	-	see also 17761 line	-
40315	SLAMF7	NM_021181.3	818	gtcggggaacctctcaacatagc	251465	-	see also 17762 line	-
40316	SLAMF7	NM_021181.3	908	atccagcaatacaggttactcc	251470	-	see also 17762 line	-
40317	SLC1A5	NM_005628.1	1985	gtcctgtacctcctcaatgtag	251481	-	see also 17763 line	-
40318	SLC1A5	NM_005628.1	1986	tcctgtacctcctcaatgtaga	251482	-	see also 17763 line	-
40319	SLC20A1	NM_005415.3	1675	aaccttaaggcgcaataatagc	251514	-	see also 3781 line	-
40320	SLC20A1	NM_005415.3	1579	atcacaccgtgcataaggattcc	251511	-	see also 3781 line	-
40321	SLC20A1	NM_005415.3	1684	ggcgaataatagctactactcc	251516	-	see also 3781 line	-
40322	SLC20A2	NM_006749.3	535	accaccggctcgtgttactagg	251538	-	see also 17765 line	-
40323	SLC20A2	NM_006749.3	748	ctgtgtgcaatcgggtaccacaagg	251546	-	see also 17765 line	-
40324	SPAP1	NM_030764.2	1028	cccccaatctgtaccaaattta	251587	-	see also 17766 line	-
40325	SPAP1	NM_030764.2	1027	tcaccaatctgtaccaaatttt	251586	-	see also 17766 line	-
40326	TGFBRAP	NM_004257.3	848	agcgtcgtatgaacgaattatca	251603	-	see also 17767 line	-
40327	TGFBRAP	NM_004257.3	2438	caggtccggaataactaatcaca	251629	-	see also 17767 line	-
40328	TIP47	NM_005817.2	1324	cccttggccctgggaatcactga	251633	-	see also 17768 line	-
40329	TNFRSF10							
40329	D	NM_003840.2	705	ctccctatcactacccttactatc	251639	-	see also 17769 line	-
40330	D	NM_003840.2	1183	gggctcogaaaaagctcttttatg	251646	-	see also 17769 line	-
40331	TNFRSF11							
40331	A	NM_003839.2	1416	ctcgtgggttccccaaaaactgg	251666	-	see also 17770 line	-
40332	A	NM_003839.2	166	tgggacgggtgctgtacaacaaatgt	251650	-	see also 17770 line	-
40333	TNFRSF12							
40333	A	NM_016639.1	350	gccgcaggagagagaagtccacc	251669	-	receptor activity,	-
40334	TNFRSF13						apoptosis	-
40334	B	NM_012452.2	409	ctcgggaagggtaccacaaggattgg	251675	-	see also 17771 line	-
40335	TNFRSF13							
40335	B	NM_012452.2	301	ccctaagcaatgtgcatacttct	251672	-	see also 17771 line	-
40336	TNFRSF17	NM_001192.2	690	accacgaaacaggaactactattg	251690	-	see also 17772 line	-
40337	TNFRSF17	NM_001192.2	319	ctctaacatgtcagcgtttattgt	251677	-	see also 17772 line	-
40338	TNFRSF19							
40338	L	NM_032871.3	1418	aagtgccgggaagcccgtaacaaagt	251696	-	see also 17773 line	-
40339	TNFRSF19							
40339	L	NM_032871.3	1420	gtggcggaagccgtacaaagtgg	251697	-	see also 17773 line	-
40340	TNFRSF21	NM_014452.3	2304	aactagaccgctattcgaaatt	251719	-	see also 17774 line	-
40341	TNFRSF21	NM_014452.3	2009	cccacgcggaacttgaggaattc	251712	-	see also 17774 line	-
40342	TNFRSF21	NM_014452.3	1880	cgcacgaccggggaacgatgt	251708	-	see also 17774 line	-

図46 (続き)

1097

40343	TNFRSF9	NM_001561.4	494	tgggaacatttaacgatcagaac	251735	-	see also 17775 line
40344	TNFRSF9	NM_001561.4	798	ttaaaacacacatttatgagacc	251739	-	see also 17775 line
40345	TNPO3	NM_012470.1	1403	ggctcccgagagacacacatacag	251792	-	see also 17776 line
40346	TNPO3	NM_012470.1	845	ggccgctgggcacgtgaagattta	251790	-	see also 17776 line
40347	TOMM22	NM_020243.3	41	accccaagtcgccggacgaattgc	251830	-	receptor activity -
40348	TOMM22	NM_020243.3	192	ggcggagccactttgatctttc	251831	-	see also 40347 line
40349	TRAP240	NM_005121.1	4920	agcaacgatggatgggataaagt	251951	-	see also 17777 line
40350	TREM1	NM_018643.2	2699	tagtataggacgcagctgttcaaaa	251998	-	see also 17777 line
40351	TREM1	NM_018643.2	313	gaggaataactactgaagactacc	252015	-	see also 17778 line
40352	TREM1	NM_018643.2	661	caggagttccggtgttcaacattg	252022	-	see also 17778 line
40353	TREM2	NM_018965.1	374	accattacgcctgcggaattaca	252027	-	see also 17779 line
40354	TREM2	NM_018965.1	360	tgggtggcacctctcaccattacg	252026	-	see also 17779 line
40355	TREM5	NM_174892.1	212	gacgttcaatgccactataagc	252031	-	see also 17780 line
40356	TREM5	NM_174892.1	689	ctccgaacctctgactaaagaca	252044	-	see also 17781 line
40357	TRIP3	NM_004773.1	173	aactcgtctgttgagaaaaaa	252045	-	see also 17781 line
40358	TRIP3	NM_016179.1	335	aacattaagaagcttattgtcta	252048	-	see also 17781 line
40359	TRIP3	NM_004773.1	254	ctctatagctgattttcaata	252046	-	see also 17781 line
40360	TRPC4	NM_016179.1	482	agctcatcgactactcttaagc	252056	-	see also 6708 line
40361	TRPC4	NM_016179.1	2744	ttgtacacgatatacaaaacttt	252138	-	see also 6708 line
40362	TRPC7	NM_020389.1	1949	acgttctctacggcgtttatac	252186	-	see also 7861 line
40363	TRPC7	NM_020389.1	1948	tacgttctctacggcgtttataa	252185	-	see also 7861 line
40364	TRPM8	NM_024080.3	1689	tccacgcgctgtctctactact	252239	-	see also 8586 line
40365	TRPM8	NM_024080.3	3272	atgaggatcagatttagacaact	252266	-	see also 8586 line
40366	TRPV2	NM_016113.3	590	gaccgagatcggctcttcaatgc	252270	-	see also 17785 line
40367	TRPV2	NM_016113.3	571	gcggatccaaacagatttgacc	252269	-	see also 17785 line
40368	TRPV3	NM_145068.2	1083	accacaacagagcgtctacttc	252296	-	see also 9774 line
40369	TRPV3	NM_145068.2	2551	gacgcacgtctctctcttaacg	252307	-	see also 9774 line
40370	TRPV4	NM_021625.3	269	aggcgatggcgaccaaactcgc	252313	-	see also 17787 line
40371	TRPV4	NM_021625.3	773	ctcgcccttcctgacactact	252321	-	see also 17787 line
40372	TRPV5	NM_019841.3	1862	gcctccgctgtctatctattt	252342	-	see also 17788 line
40373	TRPV5	NM_019841.3	554	acctgtgacgttcgacaaagagg	252330	-	see also 17788 line
40374	UNC13B	NM_006377.2	230	tgtctgtgtgtcggtttaaagg	252354	-	see also 4469 line
40375	UNC13B	NM_006377.2	2437	taccacgtcagatatacatgtct	252400	-	see also 4469 line
40376	UNC5B	NM_170744.2	2628	agccgaacacgctaattgttcaag	252446	-	see also 17790 line
40377	UNC5B	NM_170744.2	2629	ggcgaacacgctaattgttcaag	252447	-	see also 17790 line
40378	WDR31	NM_145241.1	1233	tgtgtgacgcatctctctattgt	252470	-	see also 17791 line
40379	WDR31	NM_145241.1	641	cacaacaaagcagcaaatgtgt	252462	-	see also 17791 line
40380	ZYX	NM_003461.3	414	cccccgatcgaggaaatcttcc	252476	-	see also 17792 line
40381	ZYX	NM_003461.3	413	tccccgatcgaggaaatcttcc	252475	-	see also 17792 line
40382	ZYX	NM_003461.3	412	ctccccgatcgaggaaatcttcc	252474	-	see also 17792 line
40383	APS	NM_020979.1	234	tggactttgacacaaagtctgc	252488	-	see also 17793 line
40384	APS	NM_020979.1	878	atcccaactgtcagccacttga	252489	-	see also 17793 line
40385	ARHGAP4	NM_001666.1	804	cgtgtgtgtcagtaactactacc	252496	-	see also 17794 line
40386	ARHGAP4	NM_001666.1	803	acgtgtgtcagtaactactacc	252495	-	see also 17794 line

1098

図46 (続き)

40387	ARHGAP6	NM_001174.2	1834	tgcgaatgacagggcctataaac	252508	-	see also 764 line	
40388	ARHGAP6	NM_001174.2	2084	gacaatcagctcgcactactaga	252513	-	see also 764 line	
40389	BLNK	NM_013314.2	511	tgcgcagagagcgagatataga	252557	-	see also 5395 line	
40390	BLNK	NM_013314.2	1342	aagcgagatataataatcttgt	252577	-	see also 5395 line	
40391	CRK	NM_005206.2	656	tccttaccgtcgagaagtataga	252588	-	see also 3656 line	
40392	CRK	NM_005206.2	433	gacactacaacggttgatagaacc	252586	-	see also 3656 line	
40393	CRK	NM_005206.2	355	ccctccagactcgaatagaga	252582	-	see also 3656 line	
40394	GRAP	NM_006613.2	588	ttccgcgtggcgacatattga	252596	-	signal transduction protein	SH3/SH2 adaptor
40395	GRAP	NM_006613.2	453	cgccaagaagcggcgagattcc	252595	-	see also 40394 line	-
40396	GRAP2	NM_004810.2	998	caccggcttggcgagtgaaatga	252606	-	see also 17798 line	
40397	GRAP2	NM_004810.2	391	aaggatattgtccccaagaatttc	252597	-	see also 17798 line	
40398	GRB10	NM_005311.2	1403	caccaccgcacactaggattaga	252618	-	see also 17799 line	
40399	GRB10	NM_005311.2	1939	agcgttcagactctcctcaagtatg	252628	-	see also 17799 line	
40400	GRB14	NM_004490.1	1542	gaccgagattagatgcttaagt	252668	-	see also 17800 line	
40401	GRB14	NM_004490.1	919	gacataacggctcgagattttg	252648	-	see also 17800 line	
40402	GRB2	NM_002086.2	302	aagccatcgcccaaatatgacttc	252680	-	see also 1348 line	
40403	GRB7	NM_005310.1	588	agctcgcaagtggtgaaatgc	252694	-	see also 17801 line	
40404	GRB7	NM_005310.1	977	tgcgcgatctggcctctattac	252698	-	see also 17801 line	
40405	LASP1	NM_006148.1	384	cacgcccagctccacagagaatca	252711	-	see also 17802 line	
40406	LASP1	NM_006148.1	271	gcggacaccccggaacaccttcg	252710	-	see also 17802 line	
40407	LASP1	NM_006148.1	270	ggcggacaccccggaacaccttc	252709	-	see also 17802 line	
40408	LAT	NM_014387.2	831	ggctccagattacgagaatctgc	252718	-	see also 5645 line	
40409	LAT	NM_014387.2	724	ggcagccggagtgatgtgaatgt	252716	-	see also 5645 line	
40410	RUSC1	NM_014328.1	189	gtcagcgtctcgttgataaaat	252720	-	see also 17803 line	
40411	RUSC1	NM_014328.1	497	tagccgttcacgctccttatcc	252723	-	see also 17803 line	
40412	SCAP2	NM_003930.3	551	ttcattagcctcagaacgatattc	252738	-	see also 2689 line	
40413	SCAP2	NM_003930.3	860	ctctgctctctgataaacgtatat	252746	-	see also 2689 line	
40414	SCAP2	NM_003930.3	723	ctcagtaaaacggattctatta	252743	-	see also 2689 line	
40415	SH2D1A	NM_002351.1	433	tgcgttatcacggttacatttat	252766	-	see also 17805 line	
40416	SH2D1A	NM_002351.1	422	ctgcctatgtgtcgtgtatcacg	252764	-	see also 17805 line	
40417	SH2D3A	NM_005490.1	415	accggctctgtgttcacagttata	252774	-	kinase related	-
40418	SH2D3A	NM_005490.1	504	ggcctctgcacgcagccttagc	252776	-	signal transduction	-
40419	SH2D3A	NM_005490.1	420	ctctggttcacagttattgaca	252775	-	see also 40417 line	
40420	SH2D3C	NM_005489.1	1387	taggatactggcggttaccagg	252784	-	see also 40417 line	
40421	SH2D3C	NM_005489.1	158	ctgacactatcgccagagaact	252782	-	see also 17806 line	
40422	SH3BGR	NM_007341.1	193	ttccaaactctcgaattgtttatc	252785	-	see also 17806 line	
40423	SH3BGR	NM_007341.1	239	tgggttcatacgctgattaggaga	252789	-	see also 17807 line	
40424	SH3BGR	NM_003022.1	111	tggctctacagcgattagaaga	252797	-	see also 2021 line	
40425	SH3BP2	NM_003023.2	756	cccgtaaccccgagacatgaag	252808	-	see also 17809 line	
40426	SH3BP2	NM_003023.2	572	agcaacgcacgtgtgttctctcg	252805	-	see also 17809 line	
40427	SH3BP2	NM_003023.2	1761	gtgggacgaaacctcttaacaaag	252813	-	see also 17809 line	
40428	SH3BP5	NM_004844.1	131	atcagtcacaggatgatcaac	252820	-	see also 17810 line	

図46 (続き)

1099

40429	SH3BP5	NM_004844.1	632	tgcagctcgagcaactgaaaaag	252825	-	see also 17810 line
40430	SHB	NM_003028.1	1426	aagttgcctcggtccagcataaag	252836	-	see also 17811 line
40431	SHB	NM_003028.1	1705	agggggctttaagcctataaac	252840	-	see also 17811 line
40432	SLA	NM_006748.1	236	cactggtcgagagaggttacatcc	252854	-	see also 17812 line
40433	SLA	NM_006748.1	845	ctcatcacacactactcttgagg	252859	-	see also 17812 line
40434	SNX9	NM_016224.3	1293	ctggcggggagtcagatatttc	252866	-	see also 6729 line
40435	SNX9	NM_016224.3	184	aggctcggttatgtatgtttt	252861	-	see also 6729 line
40436	SNX9	NM_016224.3	1294	tggcggagagtcagatatttc	252867	-	see also 6729 line
40437	STAM	NM_003473.2	347	aggattgtctctggtctatttg	252911	-	see also 2349 line
40438	STAM	NM_003473.2	1583	ctcaggcgcgttacccaaataga	252937	-	see also 2349 line
40439	TP53BP2	NM_005426.1	1285	gtcatgataagcgtttaatga	252956	-	see also 17815 line
40440	TP53BP2	NM_005426.1	1169	ctgagcttgatgcctctataag	252953	-	see also 17815 line
40441	PAG	NM_018440.2	1347	aacgactacgagagcataagtga	253026	-	see also 17816 line
40442	PAG	NM_018440.2	1091	atcggggcagtcgctcacagttc	253021	-	see also 17816 line
40443	SHC1	NM_003029.3	601	gcgcgagtatgccttatgtgc	253033	-	see also 2031 line
40444	SHC1	NM_003029.3	712	ttcaggttgccgttcaacaata	253036	-	see also 2031 line
40445	SHC1	NM_003029.3	194	ccgcacacggggagctttgtcaat	253027	-	see also 2031 line
40446	TRIM	NM_016388.1	586	ttctaagaccaccccttagtagaca	253062	-	see also 17818 line
40447	TRIM	NM_016388.1	573	tagatgcagcgttttaagacc	253061	-	see also 17818 line
40448	AKAP12	NM_005100.2	4153	ctgcagagtcacgtaagtatcc	253123	-	see also 17819 line
40449	AKAP12	NM_005100.2	3600	cactgtcaagcgcgaaaccttag	253113	-	see also 17819 line
40450	AKAP3	NM_006422.2	2424	atgcctacaagctatocataat	253188	-	see also 4498 line
40451	AKAP3	NM_006422.2	395	ttccaagatgtcgggtccaacc	253140	-	see also 4498 line
40452	AKAP4	NM_003886.2	1026	ttctatatgcgaattatccaac	253222	-	see also 17821 line
40453	AKAP4	NM_003886.2	2193	agcaagcgaacggcgaaattata	253245	-	see also 17821 line
40454	AKAP4	NM_003886.2	782	tacgtcaaccgactatcttctct	253217	-	see also 17821 line
40455	AKAP6	NM_004274.3	951	tacgttagctgctgactctatct	253273	-	see also 17822 line
40456	AKAP6	NM_004274.3	1395	aagcacccttcgctagtagatc	253283	-	see also 17822 line
40457	AKAP7	NM_004842.2	274	cccgatgacgctgactagtaag	253437	-	see also 17823 line
40458	AKAP7	NM_004842.2	273	gcccgatgacgctgaactagtaa	253436	-	see also 17823 line
40459	PDCL	NM_005388.2	203	aactgcagctactatagcagc	253463	-	see also 3759 line
40460	CD19	NM_001770.3	1409	ctccaacgctgagcttatgaga	253489	-	see also 17825 line
40461	CD19	NM_001770.3	697	accccaaggccctaaagtcattg	253477	-	see also 17825 line
40462	CD19	NM_001770.3	864	atcactgctcggccagctacttg	253482	-	see also 17825 line
40463	FLRT2	NM_013231.2	1181	ggccgtcagggaattaaatatga	253523	-	see also 17826 line
40464	FLRT2	NM_013231.2	749	gagctggagcgtcttatgtgg	253507	-	see also 17826 line
40465	MADH1	NM_005900.1	1703	accacccgagctgattctagc	253566	-	see also 4110 line
40466	MADH1	NM_005900.1	898	ttcgttaacttaggacaaaatga	253547	-	see also 4110 line
40467	MADH5	NM_005903.4	1313	atcgttaattcgacaattgaaac	253604	-	see also 4113 line
40468	MADH5	NM_005903.4	396	tccagcagtaaaagcgtatttgg	253571	-	see also 4113 line
40469	MS4A1	NM_021950.2	677	cccatctacccaatactgttaca	253623	-	see also 17829 line
40470	MS4A1	NM_021950.2	880	aagtggttgggctgaactgaaca	253629	-	see also 17829 line
40471	NSMAF	NM_003580.2	1715	cacgagtggtatgatctaatt	253673	-	see also 2376 line
40472	NSMAF	NM_003580.2	2308	aagacggccagacacgttaattgg	253692	-	see also 2376 line

図46 (続き)

1100

40473	RGS14	NM_006480.3	419	cagcgcgggaaaaacgtgacttct	253775	-	see also 17831 line
40474	RGS14	NM_006480.3	1020	gggagcacggaggaggaagtga	253779	-	see also 17831 line
40475	TBL3	NM_006453.2	792	ggagacggtgcctgtgttgaga	253789	-	see also 4524 line
40476	TBL3	NM_006453.2	1301	tcgctatctggagaatgaacaag	253796	-	see also 4524 line
40477	TIAM1	NM_003253.1	5175	agcgaagagggaggaagtcatttg	253871	-	see also 17834 line
40478	TIAM1	NM_003253.1	1506	ctcctgtccaggcatcattgc	253816	-	see also 17834 line
40479	FST	NM_006350.2	383	cccggaattgtccaaatcacc	253875	-	see also 17835 line
40480	FST	NM_006350.2	433	gggaacacctaacgcgaatgaatg	253876	-	see also 17835 line
40481	ARHGEF1	NM_004706.3	1030	gcctctcgggacgggaatctcg	253890	-	see also 17836 line
40482	ARHGEF1	NM_004706.3	454	tcaccaagctgccttgaacttg	253887	-	see also 17836 line
40483	ARHGEF1	NM_004706.3	455	cccaagctgccttgaacttga	253888	-	see also 17836 line
40484	ARHGEF1	NM_014784.2	1623	gacatacttcactatatgttga	253902	-	see also 17837 line
40485	ARHGEF1	NM_014784.2	5108	taagggaactgcttttatgtca	253943	-	see also 17837 line
40486	ARHGEF12	NM_015313.1	1380	aggatctgcagccactatato	253981	-	see also 6323 line
40487	ARHGEF12	NM_015313.1	1036	aacccgtatagcaacctatatta	253971	-	see also 6323 line
40488	AXIN1	NM_003502.2	1072	ggccagtaaacccctattatgt	254091	-	see also 17839 line
40489	AXIN1	NM_003502.2	881	ctggataacctgcacactaaat	254086	-	see also 17839 line
40490	AXIN2	NM_004655.1	2564	gaagggtgtcccgatgtatgaag	254124	-	see also 17840 line
40491	AXIN2	NM_004655.1	2562	ggagcgggtgtcccgatgtatga	254123	-	see also 17840 line
40492	BCAR1	NM_014567.1	964	cccggtgtggaggtgtatgacg	254130	-	see also 17841 line
40493	BCAR1	NM_014567.1	851	ggagccacagacaatgatgtgt	254128	-	see also 17841 line
40494	BSG	NM_001728.2	939	ggccggtcagagactcacattga	254132	-	see also 17842 line
40495	BSG	NM_001728.2	941	ccggtcagagctcacactgaga	254133	-	see also 17842 line
40496	CLTCL1	NM_001835.1	3555	ggcgtgagctctatatagagact	254206	-	see also 17843 line
40497	CLTCL1	NM_001835.1	4242	aacgtcgagctctgttacagagc	254214	-	see also 17843 line
40498	DIXDC1	NM_033425.1	1699	aaggaaatcacccgtatcacttc	254243	-	see also 17844 line
40499	DIXDC1	NM_033425.1	472	gtgcaaaaggcggagtcattata	254220	-	see also 17844 line
40500	DKFZP434	NM_015668.1	2479	ctcttaacgtctctaaacgaac	254323	-	see also 17845 line
40501	DKFZP434	NM_015668.1	43	acgcggagccaccaactattac	254246	-	see also 17845 line
40502	DKFZP434	NM_015668.1	1177	aggcggagactgtgtatttctca	254281	-	see also 17845 line
40503	DKKL1-	NM_014419.1	461	ggagcttcaggagggtgattgaagg	254366	-	see also 17846 line
40504	DRCTN1B	NM_032581.2	1762	gacctcttagtattagcattact	254420	-	see also 9252 line
40505	DVL1	NM_004421.2	1910	cacgaccaaggcctatacagtg	254431	-	see also 17848 line
40506	DVL1	NM_004421.2	1908	ccacagaccagccctatacag	254430	-	see also 17848 line
40507	DVL2	NM_004422.1	2148	ggacggcagccgccaagcttcc	254440	-	see also 17849 line
40508	DVL2	NM_004422.1	810	cacgtaaacatggagaaatata	254434	-	see also 17849 line
40509	GASZ	NM_130768.1	117	ctcgaccggagctctcagaatt	254441	-	see also 17850 line
40510	GASZ	NM_130768.1	470	ggagcttatgaccccaatctgt	254461	-	see also 17850 line
40511	IKBK	NM_003639.2	1118	ggagccggagcagcacaagattgt	254493	-	see also 2457 line

図46 (続き)

1101

40512	IKBK7	NM_003639.2	1447	ctgtcccaagtgccagttatcagg	254496	-	see also 2457 line
40513	KCNH7	NM_033272.2	1028	agcattcttcggtccatgatatag	254522	-	see also 9392 line
40514	KCNH7	NM_033272.2	1027	gagcatcttcggtccatgatata	254521	-	see also 9392 line
40515	LOC13913	NM_173493.1	346	accaagtgcagctacagttatga	254616	-	see also 17852 line
40516	LOC13913	NM_173493.1	1487	cacattacgcacgttgctatctc	254639	-	see also 17852 line
40517	LOC13913	NM_173493.1	608	tagttctgtacgaaacgtga	254621	-	see also 17852 line
40518	LY86	NM_004271.1	155	ttgcgattccattacaagatttg	254659	-	see also 17853 line
40519	LY86	NM_004271.1	147	taccagagtgctgacattaca	254656	-	see also 17853 line
40520	NPAS3	NM_022123.1	797	aacgcggtgtcacatcaaatca	254676	-	see also 8284 line
40521	NXF	NM_178864.2	866	ctccgagagtgctcaatctaac	254709	-	see also 10227 line
40522	NXF	NM_178864.2	666	aacaaactgctgtatttgagg	254708	-	see also 10227 line
40523	NXF	NM_178864.2	323	cactgcgaaggcgtctcttcg	254704	-	see also 10227 line
40524	PDOD1	NM_005018.1	245	atcgagagcttgctgtctaaact	254730	-	see also 17856 line
40525	PDOD1	NM_005018.1	651	gcgcacgagggacacataggagg	254731	-	see also 17856 line
40526	PER1	NM_002616.1	1214	cgcatccattcgggttacgaagc	254738	-	see also 1691 line
40527	PER1	NM_002616.1	1471	tgcccgcaacggggagtgatga	254741	-	see also 1691 line
40528	PER1	NM_002616.1	1134	tcgcctaaccccgatgtgacc	254737	-	see also 1691 line
40529	PER2	NM_003894.3	1220	cccggaacggagagtcacacag	254771	-	see also 17858 line
40530	PER2	NM_003894.3	745	ctgaccaggttgcatccattatt	254782	-	see also 17858 line
40531	PER3	NM_016831.1	3368	agcgacagcaggtatatacctaac	254855	-	see also 6970 line
40532	PER3	NM_016831.1	1190	ccattcgtttgtactcaaaa	254820	-	see also 6970 line
40533	PLEKH1	NM_021200.1	934	cagccgctaccagactactacg	254871	-	see also 17860 line
40534	PLEKH1	NM_021200.1	619	ccgtgtcctacactccaatg	254870	-	see also 17860 line
40535	PPPIR12A	NM_002480.1	2300	agcgttagcagcagatcaaat	254912	-	see also 17861 line
40536	PPPIR12A	NM_002480.1	1631	atgaaggataaacgatacaaaa	254897	-	see also 17861 line
40537	PWP2H	NM_005049.1	35	aagttcgtctaccgggtttcaaa	254932	-	see also 17862 line
40538	PWP2H	NM_005049.1	119	atcagtcctcgtgggcaatagagt	254938	-	see also 17862 line
40539	RGS10	NM_002925.2	213	ggctagcatgtgaagatttaag	254970	-	signal transduction
40540	RGS10	NM_002925.2	147	cagaaggcgtgaagagatttagg	254967	-	see also 40539 line
40541	RGS10	NM_002925.2	212	tggctagcatgtgaagatttaa	254969	-	see also 40539 line
40542	RGS13	NM_002927.3	559	cacagtcctccctagagagattaac	254982	-	see also 1970 line
40543	RGS13	NM_002927.3	590	ttcgacaagagagactatcata	254983	-	see also 1970 line
40544	RGS17	NM_012419.3	612	gagttagagaggtgatcaataga	254989	-	see also 17864 line
40545	RGS17	NM_012419.3	669	atgcocaaacttcagatatatact	254990	-	see also 17864 line
40546	RGS18	NM_130782.1	344	aagacacccgctccagtagatct	254991	-	see also 17865 line
40547	RGS18	NM_130782.1	540	aagcaaggagactcaacaaattc	254995	-	see also 17865 line
40548	RGS3	NM_017790.2	864	acctctacctggaccttataac	255004	-	signal transduction
40549	RGS3	NM_017790.2	466	gggcaagcgacacaaatgatga	255003	-	, gpcr
40550	RGS5	NM_003617.1	599	ctggagttttatcaggagttatc	255024	-	see also 40548 line
40551	RGS5	NM_003617.1	188	ttgtctattcgttacaatgagaag	255020	-	see also 17866 line
40552	RGS8	NM_033345.1	259	aaccgcgctcgaagagattatc	255029	-	see also 17866 line
40553	RGS8	NM_033345.1	217	gactcgtgtgtgtttcacagc	255028	-	see also 17867 line
40554	RGS11	NM_181572.2	975	ttgogataatgatctatattc	255065	-	see also 17868 line

図46 (続き)

1102

40555	RGSL1	NM_181572.2	1047	tgcaggtcaacccggccataaat	255067	-	see also 17888 line
40556	RGSL2	NM_032267.1	211	ttggaaaaatgccattacttt	255097	-	see also 17869 line
40557	RGSL2	NM_032267.1	20	ctgagataattggtctacaat	255091	-	see also 17869 line
40558	RTN1	NM_021136.1	418	atggggaagatcgtgtacaca	255121	-	see also 8098 line
40559	RTN1	NM_021136.1	591	gagtcctgctctattttagtc	255127	-	see also 8098 line
40560	RTN2	NM_005619.2	892	atccgatacgcgagatcgaact	255155	-	see also 17871 line
40561	RTN2	NM_005619.2	995	ctcgatagcacggaccaattaga	255156	-	see also 17871 line
40562	RTN2	NM_005619.2	310	agggacacgcgactctgatttc	255152	-	see also 17871 line
40563	SH3BP4	NM_014521.1	1961	ttccaataacgaattacagagg	255200	-	see also 17872 line
40564	SH3BP4	NM_014521.1	2725	gggtgctcgcgtctctagaaaa	255204	-	see also 17872 line
40565	SHC3	NM_016848.2	1253	ttccgctctcatgatcgaatgc	255215	-	see also 17873 line
40566	SHC3	NM_016848.2	1210	ttgagctccggttaagcaaat	255213	-	see also 17873 line
40567	SNX13	NM_015132.2	477	aaatttgacgggtgcgaataaa	255230	-	see also 17874 line
40568	SNX13	NM_015132.2	2619	agctacaataggcgatactatta	255299	-	see also 17874 line
40569	SNX25	NM_031953.2	2314	ctcgttcagggtcacctttggagg	255359	-	see also 17875 line
40570	SNX25	NM_031953.2	775	ttgaagcaactaaggatcataat	255322	-	see also 17875 line
40571	STMN1	NM_005563.2	164	agccctcgggtcaaaaagaatctgt	255371	-	signal transducer
40572	STMN1	NM_005563.2	453	aaagtttgcggagagaaggataag	255372	-	see also 40571 line
40573	STMN1	NM_005563.2	161	ctcagccctcgtctcaaaagaatc	255370	-	see also 40571 line
40574	TM4SF3	NM_004616.2	274	gggtacagtaagcaaatgactct	255375	-	see also 17876 line
40575	TM4SF3	NM_004616.2	394	ttgggtgctcgtgtctataaaa	255377	-	see also 17876 line
40576	TP53AP1	NM_007233.1	332	agcaacaggcgacacattacacc	255396	-	-
40577	TP53AP1	NM_007233.1	214	accacaacctctggatagatgc	255392	-	see also 40576 line
40578	TP53AP1	NM_007233.1	242	ggcatggttaagacccatttca	255394	-	see also 40576 line
40579	WNT1	NM_005430.2	558	ctctcggagaaacgggtttatct	255402	-	see also 17877 line
40580	WNT1	NM_005430.2	291	ttggccgaggtgggggtatttga	255397	-	see also 17877 line
40581	WNT10A	NM_025216.2	575	aggtcagcagcccaatgacattct	255407	-	see also 17878 line
40582	WNT10A	NM_025216.2	789	gctcggagactcgcacaagaatc	255408	-	see also 17878 line
40583	WNT10B	NM_003394.2	412	gtgcagtcgggctcctaagcaatg	255413	-	see also 2293 line
40584	WNT11	NM_004626.2	666	aggaatcccaagcccaataaactga	255419	-	see also 3143 line
40585	WNT16	NM_016087.2	869	ctgctctatgtaataagatctcc	255431	-	see also 17881 line
40586	WNT16	NM_016087.2	753	ttggccatttggtaagagataaa	255424	-	see also 17881 line
40587	WNT2	NM_003391.1	973	ttcaggaaaaacggcgattatct	255440	-	see also 17882 line
40588	WNT2	NM_003391.1	975	caggaaaaacggcgattatctct	255441	-	see also 17882 line
40589	WNT2B	NM_004185.2	508	gggttagtcacgcgtattactcg	255458	-	see also 2806 line
40590	WNT2B	NM_004185.2	853	tacctcggcgcagctctatgatgg	255461	-	see also 2806 line
40591	WNT3	NM_030753.3	384	ttgaactgtcaaccaccatagatga	255476	-	see also 8927 line
40592	WNT3A	NM_033131.2	82	ggcccaactcggatactcttact	255487	-	see also 17885 line
40593	WNT3A	NM_033131.2	274	gtggccggagggcatcaagattgg	255488	-	see also 17885 line
40594	WNT4	NM_030761.2	812	ggcaacgacgcacagttcaagc	255490	-	signal transducer
40595	WNT5B	NM_030775.2	780	ttggcagacgtagctcgaatgc	255501	-	see also 17886 line
40596	WNT5B	NM_030775.2	757	cggtcgcagggctgtgtataaga	255499	-	see also 17886 line
40597	WNT6	NM_006622.2	1219	ggcgtgtagcgtcgaagaact	255504	-	see also 17887 line
40598	WNT7B	NM_058238.1	859	aacagctgctgcagctatcagaag	255509	-	see also 9505 line

図46 (続き)

1103

40599	WNT8A	NM_031933.1	737	gaccaggcgtgaaattgaaat	255524	-	see also 17899 line
40600	WNT8A	NM_031933.1	352	gacttccttatacatgctatca	255514	-	see also 17899 line
40601	WNT8B	NM_003393.2	555	ggcgatttccaagcagttgtcg	255533	-	see also 2290 line
40602	WNT8B	NM_003393.2	1109	ggcggagggtccacagttacttc	255535	-	see also 2290 line
40603	WNT9A	NM_003395.1	509	ggcctgcggagacacacctaagt	255538	-	see also 17891 line
40604	WNT9A	NM_003395.1	590	cogtgggacttcacacacacc	255539	-	see also 17891 line
40605	WNT9B	NM_003396.1	747	tgtgaaactgcgtatgactcg	255543	-	signal transducer -
40606	WNT9B	NM_003396.1	600	cacggcagcagccacacatacc	255542	-	see also 40605 line
40607	C3orf1	NM_016589.1	567	cacacagagcttcattcgtatg	255548	-	see also 17892 line
40608	C3orf1	NM_016589.1	708	cacgggaagcttttttagataa	255551	-	see also 17892 line
40609	C3orf1	NM_016589.1	862	aagccactccatgagctaaact	255552	-	see also 17892 line
40610	SEC61A1	NM_013336.2	561	ggcagctctatcgttatgtatg	255578	-	see also 17893 line
40611	SEC61A1	NM_013336.2	1253	gacccggatccatgcaagttgtata	255592	-	see also 17893 line
40612	SEC61A2	NM_018144.2	1298	cacggagataccttatagttca	255625	-	see also 7280 line
40613	SEC61A2	NM_018144.2	1428	ttctgtagcagctcactattt	255627	-	see also 7280 line
40614	SEC61A2	NM_018144.2	190	gactctataacgctcttcattt	255600	-	see also 7280 line
40615	SEC61G	NM_014302.2	142	tcattcggctggttaaaagatg	255634	-	see also 17894 line
40616	SEC61G	NM_014302.2	162	atgcactaaacctgatagaaaag	255635	-	see also 17894 line
40617	TIMM17A	NM_006335.1	464	cagttgcctcaactcaagttacc	255651	-	see also 17895 line
40618	TIMM17A	NM_006335.1	153	ggagggtttgacagctattaaa	255642	-	see also 17895 line
40619	TIMM17B	NM_005834.1	361	gcctttctccacattgactgt	255655	-	see also 17896 line
40620	TIMM17B	NM_005834.1	260	cgcgaatgccctgttggatctc	255654	-	see also 17896 line
40621	TIMM22	NM_013337.1	321	taccgtacacagctgcaaaaga	255660	-	see also 17897 line
40622	TIMM22	NM_013337.1	275	taccgtggcagcagatcaccaag	255658	-	see also 17897 line
40623	TIMM22	NM_013337.1	558	ttctctgctgagttgattatta	255663	-	see also 17897 line
40624	TIMM23	NM_006327.1	344	ggcctggcctctttacgcttgg	255672	-	see also 17898 line
40625	TIMM23	NM_006327.1	309	tacctacggagcgtataaaacc	255670	-	see also 17898 line
40626	TIMM8A	NM_004085.2	232	ggcttgagcggcttcattgata	255681	-	see also 17899 line
40627	TIMM8A	NM_004085.2	230	ctgcgtggagcgtcttoattgata	255680	-	see also 17899 line
40628	SLC6A4	NM_001045.2	1972	ccggcacacactacgactttcc	255741	-	see also 17901 line
40629	SLC6A4	NM_001045.2	679	gggaatcccgtctttttacatgg	255721	-	see also 17901 line
40630	SLC6A2	NM_001043.1	779	gtcgtcatcgtctgtatttttag	255755	-	see also 17902 line
40631	SLC6A2	NM_001043.1	938	atcgactctacggcttgaaga	255757	-	see also 17902 line
40632	SLC6A8	NM_005629.1	1406	cacggaaagatcgttacttca	255775	-	see also 17903 line
40633	SLC6A8	NM_005629.1	651	agcgcggagaaacggcatatag	255772	-	see also 17903 line
40634	FLJ31236	NM_182632.1	1761	ggcctggaaaccccaatacagagc	255797	-	see also 17905 line
40635	FLJ31236	NM_182632.1	1523	ggcggagatttcgacaattt	255796	-	see also 17905 line
40636	NTT5	NM_014037.1	1765	atcgtcgtgtgtattgaaac	255838	-	see also 17906 line
40637	NTT5	NM_014037.1	1762	atcatcgtctgtcgtatttga	255837	-	see also 17906 line
40638	NTT73	NM_018057.2	744	tactactatgataagtgatt	255859	-	see also 7220 line
40639	NTT73	NM_018057.2	716	ggcgtcatatcttttaaccata	255855	-	see also 7220 line
40640	SLC6A11	NM_014229.1	1554	ggcgaactgccttoattagtg	255929	-	see also 5547 line
40641	SLC6A11	NM_014229.1	1551	accggccaccgtcgtcattag	255927	-	see also 5547 line
40642	SLC6A12	NM_003044.2	2017	ggcggacogtttctatgacaaca	255949	-	see also 2046 line

1104

図46 (続き)

40643	SLC6A12	NM_003044.2	1046	tggacgacgtgcaacaactttg	255940	-	see also 2046 line
40644	SLC6A13	NM_016615.2	1598	cactccgctgactacaacaaga	255968	-	see also 6952 line
40645	SLC6A13	NM_016615.2	786	ctgggtgctctgtaattcgagg	255960	-	see also 6952 line
40646	SLC6A14	NM_007231.1	1677	tgttaattacgctatcctttg	256015	-	see also 5043 line
40647	SLC6A14	NM_007231.1	1862	atcttcaacgcttataagttg	256023	-	see also 5043 line
40648	SLC6A3	NM_001044.2	1421	caacgggctcatogtaggtcc	256033	-	see also 640 line
40649	SLC6A3	NM_001044.2	732	tcgggctcaacgacacttttg	256030	-	see also 640 line
40650	SLC6A3	NM_001044.2	1765	cccaactcggagcctacatcttc	256038	-	see also 640 line
40651	SLC6A5	NM_004211.1	2396	tggctttaccgctatcctaact	256078	-	see also 2820 line
40652	SLC6A5	NM_004211.1	1334	tcccaacgtgacaatggttaatt	256049	-	see also 2820 line
40653	SLC6A7	NM_014228.2	1817	ctgccgagacatccacatgagc	256093	-	see also 17913 line
40654	SLC6A7	NM_014228.2	1310	cagtttcaccagacacatcata	256088	-	see also 17913 line
40655	XT3	NM_020208.1	1099	gagatgttcccgcaaatcaaaa	256106	-	see also 17914 line
40656	XT3	NM_020208.1	1097	gcgagatgtccgcgaatacaaa	256105	-	see also 17914 line
40657	SLC10A1	NM_003049.1	624	cacaatcatcgctatgctatc	256121	-	see also 17915 line
40658	SLC10A1	NM_003049.1	936	ttccctctctacatgatttc	256123	-	see also 17915 line
40659	SLC10A2	NM_000452.1	1488	agctcctttggcggcaatattc	256150	-	see also 17916 line
40660	SLC10A2	NM_000452.1	1358	aggtgocgaacgggtgttttga	256143	-	see also 17916 line
40661	SLC10A2	NM_000452.1	1357	caagggtccgaacgggtgttttg	256142	-	see also 17916 line
40662	SLC10A4	NM_152679.2	805	cacccctatcgtgcagtaactac	256160	-	see also 17918 line
40663	SLC10A4	NM_152679.2	1061	ggctaogctcagggtatgtttt	256174	-	see also 17918 line
40664	SLC10A4	NM_152679.2	806	accctatogtgcattactacc	256161	-	see also 17918 line
40665	SLC5A2	NM_003041.1	978	ctgaagctgacgccatgtttct	256193	-	see also 2036 line
40666	SLC5A1	NM_000343.1	1816	caggagagcctatgacctattt	256218	-	see also 17919 line
40667	SLC5A1	NM_000343.1	1282	tgcgggaaggtgtttatctcgg	256208	-	see also 17919 line
40668	SLC23A2	NM_005116.4	2161	gacgggatggagtcgtacaatt	256254	-	see also 3589 line
40669	SLC23A2	NM_005116.4	539	agctatggcgatctacactacg	256226	-	see also 3589 line
40670	SLC38A1	NM_030674.2	1240	caagtacgccaataatgta	256295	-	see also 17921 line
40671	SLC38A1	NM_030674.2	1236	ctgacacggtacgccaataat	256293	-	see also 17921 line
40672	SLC13A2	NM_003984.1	298	aggttgcctcgatgtacttaag	256320	-	see also 17922 line
40673	SLC13A2	NM_003984.1	1318	tgcggtggaataatogtatttg	256329	-	see also 17922 line
40674	SLC28A1	NM_004213.2	1286	atcgatgcacactctgttattgc	256338	-	see also 17923 line
40675	SLC28A1	NM_004213.2	1606	gcggcctgtagcctctctgtatgg	256340	-	see also 17923 line
40676	SLC28A2	NM_004212.1	918	aaggtgcctgtgtttttacaatt	256364	-	see also 17924 line
40677	SLC28A2	NM_004212.1	1304	tgcataagccttctactaatg	256368	-	see also 17924 line
40678	SLC28A3	NM_022127.1	1131	ctggtccgaccatatttaacctta	256409	-	see also 17925 line
40679	SLC28A3	NM_022127.1	783	tggggaaatcgggctacagtttct	256397	-	see also 17925 line
40680	SLC15A1	NM_005073.1	213	accgcaatcacatcactttgt	256417	-	see also 3545 line
40681	SLC15A1	NM_005073.1	2081	agggagatcgagctcaatttg	256465	-	see also 3545 line
40682	SLC15A2	NM_021082.2	200	tgcgagcgtttctctattatgg	256473	-	see also 8081 line
40683	SLC15A2	NM_021082.2	570	aggaaacggactagatacttcta	256485	-	see also 8081 line
40684	SLC15A2	NM_021082.2	199	ctgcgagcgttttctattatg	256472	-	see also 8081 line
40685	SLC17A5	NM_012434.3	1042	atccaaaggttcaatgttcaaga	256561	-	see also 17928 line
40686	SLC17A5	NM_012434.3	197	ctgctcgttaacaacttagcaatt	256532	-	see also 17928 line

図46 (続き)

1105

40687	SLC12A1	NM_000338.1	719	gacacgaacaggaggtgttagagg	256595	-	see also 284 line
40688	SLC12A1	NM_000338.1	1554	ttgtcagcgaccccaaggttgc	256612	-	see also 284 line
40689	SLC12A2	NM_001046.2	3393	agcaagttccggatagactttc	256773	-	see also 641 line
40690	SLC12A2	NM_001046.2	3708	ctctacatggcattgtagaagc	256789	-	see also 641 line
40691	SLC12A5	NM_020708.3	1905	tgaggagccacgtcttcgatatta	256799	-	see also 7927 line
40692	SLC12A5	NM_020708.3	1904	ctgaggagccacgtcttcgatatt	256798	-	see also 7927 line
40693	SLC12A7	NM_006598.1	1438	agggctgtgtttacagagataagt	256828	-	see also 4631 line
40694	SLC12A7	NM_006598.1	2741	atggttgaaacagacatatctgc	256834	-	see also 4631 line
40695	SLC12A3	NM_000339.1	187	atcatgtatgtcccaacatatga	256838	-	see also 17933 line
40696	SLC12A3	NM_000339.1	1713	ggcgctgtttggggctatcatct	256850	-	see also 17933 line
40697	SLC12A3	NM_000339.1	1067	tactggcaggggcccaacatatct	256844	-	see also 17933 line
40698	SLC12A6	NM_005135.1	2905	cacatggcggtatccaaaacaga	256947	-	see also 3611 line
40699	SLC12A6	NM_005135.1	903	cggcgtagctatgtgaacaagt	256885	-	see also 3611 line
40700	SLC13A4	NM_012450.2	1596	ggcgagagagggttgaaacttgg	256982	-	see also 17935 line
40701	SLC13A4	NM_012450.2	1013	tgctctgcgcatggtcttgatgg	256958	-	see also 17935 line
40702	SLC4A4	NM_003759.1	3187	tcctaagcgatagcaaacctct	257088	-	see also 2569 line
40703	SLC4A5	NM_021196.2	1137	agcccgcaatcgggaagatctga	257082	-	see also 17937 line
40704	SLC4A5	NM_021196.2	1095	aaccctcatgtatgatgactct	257081	-	see also 17937 line
40705	SLC4A7	NM_003615.2	510	gaccgatggagtaaaccttatgt	257126	-	see also 17938 line
40706	SLC4A7	NM_003615.2	2635	tgcatgacaactcagtgathtt	257170	-	see also 17938 line
40707	SLC12A4	NM_005072.3	975	tccegtgttcgggtatgcatgc	257214	-	see also 3544 line
40708	SLC12A4	NM_005072.3	1449	tacaacttcctcgtgtacttca	257219	-	see also 3544 line
40709	SLC12A4	NM_005072.3	1507	gtgttctcgggacaagatagg	257220	-	see also 3544 line
40710	SLC13A1	NM_022444.3	732	cacgtaaacttacgtttgtgc	257250	-	see also 8358 line
40711	SLC13A1	NM_022444.3	723	ggcaagtgaacgttaacttaacg	257249	-	see also 8358 line
40712	SLC13A1	NM_022829.3	365	cgggggaatcgccctcaagatcc	257293	-	see also 8485 line
40713	SLC13A3	NM_022829.3	1765	tcceggactggcgctgatgttac	257314	-	see also 8485 line
40714	SLC16A1	NM_003051.2	1192	tgcggttcctgtgtgcaaatg	257341	-	see also 17942 line
40715	SLC16A1	NM_003051.2	1472	ggcgctgtcctaatattttcaag	257357	-	see also 17942 line
40716	SLC16A1	NM_003051.2	1465	ggcatgtggcgctgtcctaatta	257354	-	see also 17942 line
40717	SLC16A2	NM_006517.1	831	ccctcgcgatgggtatgacttc	257364	-	see also 17943 line
40718	SLC16A2	NM_006517.1	829	agccctcgcgatgggtatgactt	257363	-	see also 17943 line
40719	SLC16A2	NM_006517.1	1623	gocctatcgtcgtctgtcttttc	257375	-	see also 17943 line
40720	SLC16A3	NM_004207.1	1273	tgggcaacttcttcgcattagg	257380	-	see also 17944 line
40721	SLC16A4	NM_004896.1	724	ttggagctatcgcattgaatttg	257397	-	see also 3219 line
40722	SLC16A4	NM_004896.1	728	agctatggcattgaatttgatgc	257399	-	see also 3219 line
40723	SLC16A5	NM_004895.2	1672	cacgtccagctcgggtcaataag	257424	-	see also 17946 line
40724	SLC16A5	NM_004895.2	380	cacgtgatctcggcatcttcttca	257419	-	see also 17946 line
40725	SLC16A6	NM_004894.2	680	tgctttgcaccagcaaatcattg	257439	-	see also 17947 line
40726	SLC16A6	NM_004894.2	1245	agggagcccatcttgtaagatta	257441	-	see also 17947 line
40727	SLC16A7	NM_004731.3	1276	ggcgctggagctgtcacaaattgt	257484	-	see also 3249 line
40728	SLC16A7	NM_004731.3	539	tgcaaccgccttaacataatt	257454	-	see also 3249 line
40729	SLC16A8	NM_013356.1	1409	tgctgtggtgtgtcctaagctgc	257496	-	see also 3249 line
40730	SLC16A8	NM_013356.1	1602	ggctgtgctgcggatgtgtataa	257497	-	see also 40729 line

symporter

1106

図46 (続き)

40731	SLC16A8	NM_013356.1	1057	gcccacgtcccgctatctgttca	257494	-	see also 40729 line
40732	SLC17A1	NM_005074.1	1283	atccggaatccgcctgatttaa	257541	-	see also 17949 line
40733	SLC17A1	NM_005074.1	1284	tcgggaatccgcctgatttaa	257542	-	see also 17949 line
40734	SLC17A2	NM_005835.1	1128	atcacccgcatgaagttagg	257565	-	see also 17950 line
40735	SLC17A2	NM_005835.1	1301	tacctacacacgtatatacgtac	257570	-	see also 17950 line
40736	SLC17A2	NM_005835.1	1297	aacatacctacacacgtatatac	257589	-	see also 17950 line
40737	SLC17A3	NM_006632.1	1250	ctcaattccggctatatacagc	257603	-	see also 17951 line
40738	SLC17A3	NM_006632.1	909	aacaacagctcgggtcttctaag	257595	-	see also 17951 line
40739	SLC17A3	NM_006632.1	467	ttcacacacatagacacaaatgt	257584	-	see also 17951 line
40740	SLC1A1	NM_004170.3	514	tgccgctgctgctattatttc	257620	-	see also 17952 line
40741	SLC1A1	NM_004170.3	515	ggcgctgctgctattatttt	257621	-	see also 17952 line
40742	SLC1A3	NM_004172.3	606	tgccgctgctgctattatttc	257658	-	see also 2801 line
40743	SLC1A3	NM_004172.3	444	ccctccgacacacacgaatgagc	257654	-	see also 2801 line
40744	SLC1A4	NM_003038.2	751	tacgtatgcacacgattataaag	257682	-	see also 17954 line
40745	SLC1A4	NM_003038.2	1222	agcgacctctccctctatgaga	257690	-	see also 17954 line
40746	SLC1A6	NM_005071.1	394	tgccggcagctgtgtactacatg	257698	-	see also 3541 line
40747	SLC1A6	NM_005071.1	1530	aacgtactggggactcaaatgag	257705	-	see also 3541 line
40748	SLC1A7	NM_006671.3	662	tcctcggcgatcctcatcagc	257710	-	see also 17956 line
40749	SLC1A7	NM_006671.3	1492	acggttccgacacgattataac	257716	-	see also 17956 line
40750	SLC23A1	NM_005847.2	1432	cgggctcgcgtgcccatttaac	257728	-	see also 17957 line
40751	SLC23A1	NM_005847.2	1648	cagctcgaagcgtacgatttc	257733	-	see also 17957 line
40752	SLC24A1	NM_004727.1	331	tcggacacacggcgtctcattg	257736	-	see also 17958 line
40753	SLC24A1	NM_004727.1	536	ctccgaatgggggtaagatgc	257741	-	see also 17958 line
40754	SLC24A2	NM_020344.1	1522	tacctgacgttcgcaacacctca	257804	-	see also 7842 line
40755	SLC24A2	NM_020344.1	381	ggcgatctgagaatagtagcaga	257783	-	see also 7842 line
40756	SLC24A2	NM_020344.1	666	aacgttggcatagggacacattgt	257790	-	see also 7842 line
40757	SLC24A3	NM_020889.3	1238	caagtgcgtgtgacgaatgaga	257836	-	see also 17960 line
40758	SLC24A3	NM_020889.3	1236	ggcagtcgcatgttgatcaatga	257835	-	see also 17960 line
40759	SLC34A1	NM_003052.2	741	cacggtgcgtgactgcttaact	257843	-	see also 17961 line
40760	SLC34A1	NM_003052.2	1519	ttcaacatctcgggtatctctct	257848	-	see also 17961 line
40761	SLC5A4	NM_014227.1	164	accaaccgaggtactatagagag	257851	-	see also 17962 line
40762	SLC5A4	NM_014227.1	297	caggagtcgccacgtatacattt	257852	-	see also 17962 line
40763	SLC5A5	NM_000453.1	1058	cccgaggagccgctatacattct	257903	-	see also 17963 line
40764	SLC5A5	NM_000453.1	772	tgctgtacacccgcctcgaatc	257898	-	see also 17963 line
40765	SLC5A5	NM_000453.1	925	tcacagtcgtggtgctgaagt	257900	-	see also 17963 line
40766	TSCOT	NM_033051.2	1436	tgcccatcattccaattagcatc	257927	-	see also 17964 line
40767	TSCOT	NM_033051.2	1437	ggcccatcattccaattagcatc	257928	-	see also 17964 line
40768	FLJ14753	NM_032558.1	643	atcacgttccggcaatcagtcg	257943	-	see also 9247 line
40769	FLJ14753	NM_032558.1	876	tgggcagtagtagtctctatgt	257950	-	see also 9247 line
40770	HIAT1	NM_033055.2	1343	ttccggcaacataccaatttaagc	257977	-	see also 9355 line
40771	HIAT1	NM_033055.2	79	ggcacgcctcaaggaataggttc	257953	-	see also 9355 line
40772	MGC11332	NM_032718.2	458	tagagtcgccgaggtatttita	257986	-	see also 9277 line
40773	MGC11332	NM_032718.2	460	gagtcgccgaggtatttita	257987	-	see also 9277 line

図46 (続き)

1108

40814	FLJ37307	NM_178515.2	588	ttctccagctttaagagaaag	258741	-	see also 17987 line
40815	HT008	NM_018469.3	3295	cocgactgacogagatggtatg	258809	-	see also 17988 line
40816	HT008	NM_018469.3	3112	aggtatctggaacaagaagattta	258803	-	see also 17988 line
40817	KST1	NM_052944.2	608	acacagatccagaataacctacg	258816	-	see also 17989 line
40818	KST1	NM_052944.2	701	aagatctcggtagacatgtcgc	258820	-	see also 17989 line
40819	MGC34837	NM_152377.1	1703	gccaagactcgggtactctaaga	258873	-	see also 17990 line
40820	MGC34837	NM_152377.1	1706	agcactcgggtactctaagaagc	258874	-	see also 17990 line
40821	NALP13	NM_176810.1	647	agcgctactggatcctaataagg	258889	-	see also 17991 line
40822	NALP13	NM_176810.1	1163	gggaagactctacgggtatatttc	258899	-	see also 17991 line
40823	PTD015	NM_024684.2	152	ctctaatacaacctataaggact	258947	-	see also 17992 line
40824	PTD015	NM_024684.2	142	aagtaaaaggctctaatacaacc	258944	-	see also 17992 line
40825	SLC2A1	NM_006516.1	1211	ggcggttggtgccatactactga	258956	-	see also 17993 line
40826	SLC2A1	NM_006516.1	422	ctctgtgggcttttcgttaacc	258953	-	see also 17993 line
40827	SLC2A10	NM_030777.3	1559	ctcgccctgggcttcactctattt	258970	-	see also 17994 line
40828	SLC2A10	NM_030777.3	1560	tcggcctgggcttcactctattta	258971	-	see also 17994 line
40829	SLC2A11	NM_030807.2	1172	agctgctcaacggcggttgtagt	258980	-	see also 17995 line
40830	SLC2A11	NM_030807.2	1175	tgctcaacggcggttgtagttagt	258982	-	see also 17995 line
40831	SLC2A12	NM_145176.1	1101	ttggagctgctcaaggctcattagc	259018	-	see also 9778 line
40832	SLC2A12	NM_145176.1	1712	ctggccatgggtggtgctttatata	259037	-	see also 9778 line
40833	SLC2A13	NM_052885.1	1011	ccaactccgcgcgagctttaattg	259080	-	see also 17997 line
40834	SLC2A13	NM_052885.1	1014	aactccgcgagcttaattggtgg	259061	-	see also 17997 line
40835	SLC2A14	NM_153449.2	1119	cgcgggttggtttaatactatct	259158	-	see also 17998 line
40836	SLC2A14	NM_153449.2	407	ggggtatgctggctcctctttcc	259154	-	see also 17998 line
40837	SLC2A2	NM_000340.1	895	atcgctcaacggcgcttctattag	259117	-	see also 287 line
40838	SLC2A2	NM_000340.1	1343	ttggcgctgttaaacatgggttcc	259135	-	see also 287 line
40839	SLC2A3	NM_006931.1	603	atctggtgctgctggttattgg	259156	-	sugar porter
40840	SLC2A3	NM_006931.1	581	agctaaagtctggttgaaatgctga	259155	-	lung cancer(肺癌)
40841	SLC2A4	NM_001042.1	148	gcgctgggcttccaacagatag	259184	-	see also 40839 line
40842	SLC2A4	NM_001042.1	1593	tcacacggacacccctctttta	259169	-	see also 18000 line
40843	SLC2A5	NM_003039.1	945	gtcgggcgtcaacgctatctact	259185	-	see also 18001 line
40844	SLC2A5	NM_003039.1	948	ggcggtcaacgctatctactact	259187	-	see also 18001 line
40845	SLC2A6	NM_017585.2	166	cgcgcgagctgcgcgaatttca	259192	-	see also 18002 line
40846	SLC2A6	NM_017585.2	639	agcgccctgtgctcatcatgac	259196	-	see also 18002 line
40847	SLC2A8	NM_014580.2	868	gtcaacgcgcgtatgtttctatgc	259201	-	see also 18003 line
40848	SLC2A8	NM_014580.2	866	gggtcaacgcgcgtatgtttctat	259200	-	see also 18003 line
40849	SLC2A9	NM_020041.1	1131	tacaggggcgatcgagacttgg	259215	-	see also 18004 line
40850	SLC2A9	NM_020041.1	1281	ctgggtccctaccctgagtagatg	259216	-	see also 18004 line
40851	SLC35A2	NM_005660.1	643	cgggttcgaggtgcttacttgg	259229	-	see also 18005 line
40852	SLC35A2	NM_005660.1	98	cacaggcgctggaagtacatctc	259227	-	see also 18005 line
40853	SLC35A3	NM_012243.1	259	ttctaaacatgctttattccaga	259235	-	see also 5220 line
40854	SLC35A3	NM_012243.1	918	aaccgactgacctgagtagtagt	259261	-	see also 5220 line
40855	SLC35C1	NM_018389.3	698	ctggcgctgagctttctacaaca	259275	-	see also 18007 line
40856	SLC35C1	NM_018389.3	892	gtcgcctgaccacacatgtgtcg	259277	-	see also 18007 line
40857	SLC35D1	NM_015139.1	855	ctctgcaacgagtaataattcgc	259295	-	see also 6258 line

図 46 (続き)

1109

40858	SLC35D1	NM_015139.1	875	tgctttacaactacaatgttg	259296	-	see also 6258 line
40859	SLC37A1	NM_018964.2	1447	cggattctacgtgttaactcagg	259320	-	see also 7611 line
40860	SLC37A1	NM_018964.2	1344	ggagcgcctgcgcgttaggtat	259313	-	see also 7611 line
40861	SLC37A4	NM_001467.2	735	ttgggggtacacgcctgtattac	259334	-	see also 18010 line
40862	SLC37A4	NM_001467.2	736	tggggggtacacgcctgtattac	259335	-	see also 18010 line
40863	SLC7A7	NM_003982.2	1150	ggagcctctactactatttgaga	259355	-	see also 18011 line
40864	SLC7A7	NM_003982.2	1146	ggcaggagcctctactactttt	259353	-	see also 18011 line
40865	SLC7A7	NM_003982.2	1077	aagatatcttccactatgctaaa	259351	-	see also 18011 line
40866	SLC7A2	NM_003046.1	474	cccaagcagggctgcataatt	259367	-	see also 18012 line
40867	SLC7A2	NM_003046.1	904	ctgaaaaagggaacagtatctat	259380	-	see also 18012 line
40868	SLC7A2	NM_003046.1	1911	tacttgatgctcagtgaaagtc	259396	-	see also 18012 line
40869	SLC7A3	NM_032803.3	899	cagcagcctgtttctatgcattt	259416	-	see also 18013 line
40870	SLC7A3	NM_032803.3	1383	ctccctgtgtcgtattgttttc	259428	-	see also 18013 line
40871	SLC7A5	NM_003486.4	853	tgccctatggaggatgaattact	259449	-	see also 18014 line
40872	SLC7A5	NM_003486.4	1031	ggcgtggacttcgggaactatca	259450	-	see also 18014 line
40873	SLC7A8	NM_012244.2	1238	ttctcacatgggtcaactgttcc	259457	-	see also 5221 line
40874	SLC7A8	NM_012244.2	1627	ggcgtcgcgtgacgtttggaga	259466	-	see also 5221 line
40875	SLC7A8	NM_012244.2	1496	agcttggtgatccctacaagaac	259464	-	see also 18016 line
40876	FLJ10815	NM_018231.1	1038	ggccatcgttatcatcaagtaaca	259474	-	see also 18016 line
40877	FLJ10815	NM_018231.1	844	ggcgaccacaggacaagaattat	259472	-	see also 18016 line
40878	FLJ39822	NM_173512.1	1166	tgccctcgagatgtcttagaact	259508	-	see also 18017 line
40879	FLJ39822	NM_173512.1	869	atgtccatcgtgtttctgtatt	259496	-	see also 18017 line
40880	FLJ90709	NM_173514.1	219	ttggaccatcggtatcaagatcc	259529	-	see also 10078 line
40881	FLJ90709	NM_173514.1	1784	ggcgtggctaacctgtattgttca	259575	-	see also 10078 line
40882	MGC15523	NM_138570.1	1294	ccccctcgcgttttaagaact	259583	-	see also 18019 line
40883	MGC15523	NM_138570.1	1430	cggcgtgatctacaagaaatc	259584	-	see also 18019 line
40884	SLC12A8	NM_024628.3	1253	aacttcacgtctgacatacgttgc	259605	-	see also 18020 line
40885	SLC12A8	NM_024628.3	981	tcctgatagcggaaaaggatcc	259603	-	see also 18020 line
40886	SLC36A1	NM_078483.1	309	agcgccttgatcaagaatagc	259624	-	see also 9509 line
40887	SLC36A1	NM_078483.1	978	ttggcacagcgaattttttcatt	259638	-	see also 9509 line
40888	SLC36A4	NM_152313.2	1303	ttgtgcggaggcaattcttcttc	259684	-	see also 9840 line
40889	SLC38A3	NM_006841.3	401	ggccaatacaggcattatcttt	259697	-	see also 18023 line
40890	SLC38A3	NM_006841.3	402	ggccaatacaggcattatctttt	259698	-	see also 18023 line
40891	SLC38A4	NM_018018.2	1357	ggcggcctatgcaattcctatcc	259750	-	see also 7212 line
40892	SLC38A4	NM_018018.2	1352	tcctggagacggcctatgcaattcc	259748	-	see also 7212 line
40893	SLC38A5	NM_033518.1	2024	tgccaaccatcgggatactttt	259786	-	see also 18025 line
40894	SLC38A5	NM_033518.1	954	ggcggctcagttcattgatttgc	259775	-	see also 18025 line
40895	SLC38A5	NM_033518.1	2025	ggccaaccatcgggatacttttgc	259787	-	see also 18025 line
40896	SLC7A10	NM_019849.1	648	cacggcatcagcacatgttca	259792	-	see also 18026 line
40897	SLC7A10	NM_019849.1	1445	gtgggggtcggcgtcatcatc	259799	-	see also 18026 line
40898	SLC7A13	NM_138817.1	324	tgccagtgagctcctaatactatt	259809	-	see also 18027 line
40899	SLC7A13	NM_138817.1	1388	cagcggattactattttacatac	259847	-	see also 18027 line
40900	SLC7A4	NM_004173.1	1095	ctccctgccacgcgtgtctatg	259854	-	see also 18028 line
40901	SLC7A4	NM_004173.1	1291	ttcgtggccaccagttatcttgc	259856	-	see also 18028 line

図46 (続き)

1110

40902	SLC7A6	NM_003983.1	584	cgggagccagctacgttatatt	259861	-	see also 2721 line
40903	SLC7A6	NM_003983.1	589	gcagctacgttatattctaga	259863	-	see also 2721 line
40904	SLC7A9	NM_014270.1	1154	agcggcagactcattactgtgg	259907	-	see also 18030 line
40905	SLC7A9	NM_014270.1	1259	tggtatcatagcaacgatttata	259910	-	see also 18030 line
40906	VIAAT	NM_080552.2	1018	tgcttgccgttcctccaaac	259926	-	see also 18031 line
40907	VIAAT	NM_080552.2	498	gtcggaggagacatccattca	259921	-	see also 18031 line
40908	SLC17A4	NM_005495.1	111	gtctacaggaccatgtcaagg	259934	-	see also 18032 line
40909	SLC17A4	NM_005495.1	628	ggcatagcccagggtatgtatt	259941	-	see also 18032 line
40910	SLC17A4	NM_005495.1	1373	ctcgttacactgtgtttctaaa	259962	-	see also 18032 line
40911	SLC17A7	NM_020309.1	878	acccctcacgaagtttagcact	259970	-	see also 18033 line
40912	SLC17A7	NM_020309.1	1145	acgtgcgaagtgtgaactgc	259971	-	see also 18033 line
40913	SLC34A2	NM_006424.1	1394	ttggaatcggcggtgataccatt	260000	-	see also 18034 line
40914	SLC34A2	NM_006424.1	226	tcacaggctacacgatagatga	259978	-	see also 18034 line
40915	ANKH	NM_054027.3	1328	cacgtctgttctgtgtgtttt	260038	-	see also 9499 line
40916	ANKH	NM_054027.3	569	gacaaagccgtctgtgtatgg	260014	-	see also 9499 line
40917	SLC26A1	NM_022042.2	412	agccatctacagcctctatag	260043	-	-
40918	SLC26A11	NM_173626.1	1226	agccttcgcatctcagaataatt	260049	-	see also 18036 line
40919	SLC26A11	NM_173626.1	1225	aagcttcgcatctcagaataat	260048	-	see also 18036 line
40920	SLC26A2	NM_000112.1	850	ctcaaccttcctcggactaagg	260071	-	see also 95 line
40921	SLC26A2	NM_000112.1	1964	tgcatcatatgtgtgtgactgc	260111	-	see also 95 line
40922	SLC26A4	NM_000441.1	2251	tgccgggattgtcaagaatttc	260175	-	see also 349 line
40923	SLC26A4	NM_000441.1	486	gtcatttcggggattgtactgg	260121	-	see also 349 line
40924	SLC26A6	NM_022911.2	738	ctcttgcggagctataccaca	260194	-	see also 18039 line
40925	SLC26A6	NM_022911.2	1656	tgccagacacggattattacaga	260202	-	see also 18039 line
40926	SLC26A7	NM_052832.2	328	ggcgactgccattttggattgg	260208	-	see also 9433 line
40927	SLC26A7	NM_052832.2	857	atccggacacactggattctttt	260224	-	see also 9433 line
40928	SLC26A8	NM_052961.2	2304	ttcacgggggttagtcgtattaa	260315	-	see also 18041 line
40929	SLC26A8	NM_052961.2	2306	cacgggggttagtcgtattaa	260316	-	see also 18041 line
40930	SLC26A9	NM_052934.2	1191	cggctacacagtgattcgaacc	260334	-	see also 9454 line
40931	SLC26A9	NM_052934.2	933	tgctcgtacatgcacaagattc	260350	-	see also 9454 line
40932	SLC22A11	NM_018484.2	943	ccccacattcgtatctactgc	260379	-	see also 18042 line
40933	SLC22A11	NM_018484.2	932	caccatttcgccccacacattcg	260377	-	see also 18042 line
40934	SLC22A11	NM_018484.2	1855	ctctcctctatggcgttatctcc	260382	-	see also 18042 line
40935	SLC22A7	NM_006672.2	1074	gtccgaagaccttcatactaga	260390	-	see also 18043 line
40936	SLC22A7	NM_006672.2	662	ctccgtcagctatgaattgttg	260388	-	see also 18043 line
40937	SLC01B1	NM_006446.2	867	atcaggataactcctactgattc	260411	-	see also 18044 line
40938	SLC01B1	NM_006446.2	1793	ctcacatgtatcgtgattgta	260420	-	see also 18044 line
40939	AFM	NM_001133.2	1211	taccgttacgcggaagacaatt	260469	-	see also 18045 line
40940	AFM	NM_001133.2	864	tcctgtcacacgagcaaggattg	260457	-	see also 18045 line
40941	ECM1	NM_004425.2	1521	gtgtcccccagctaacatctgg	260509	-	see also 2958 line
40942	ECM1	NM_004425.2	1188	gggagataacccttgacacaatc	260503	-	see also 2958 line
40943	LOC90139	NM_130783.1	634	ctgggaagagagccctattcctaa	260517	-	see also 18047 line
40944	LOC90139	NM_130783.1	496	gtcaacgggctgaagactttaa	260516	-	see also 18047 line
40945	KCNJ3	NM_002239.2	558	gccttgcgtggccaatgtctata	260526	-	see also 1434 line

図46 (続き)

1111

40946	KCNJ3	NM_002239.2	1048	cagcgaagcatgcaactgaaca	260534	-	see also 1434 line
40947	KCNJ6	NM_002240.2	1354	ctgggtacccgcgtgactcattag	260580	-	see also 18049 line
40948	KCNJ6	NM_002240.2	758	atcgctactctgacgcgatatcttc	260560	-	see also 18049 line
40949	KCNJ5	NM_000890.3	1267	ccggagcctcctacatggatata	260593	-	see also 581 line
40950	KCNJ5	NM_000890.3	635	ttgggtcctcattgcttatctc	260587	-	see also 581 line
40951	KCNJ12	NM_021012.2	1128	tcggaagcatctgtatgagaaca	260598	-	see also 18051 line
40952	KCNJ12	NM_021012.2	856	atccactcttgcctatgagattga	260597	-	see also 18051 line
40953	KCNJ13	NM_002242.2	853	ttccactaacgtactacactcc	260620	-	see also 18052 line
40954	KCNJ13	NM_002242.2	540	atcgctctacttgcctacataaat	260607	-	see also 18052 line
40955	KCNJ14	NM_013348.2	577	cactgaacagtcggttcgtataa	260630	-	see also 18053 line
40956	KCNJ14	NM_013348.2	579	ctgcaacgtggttcgtataaac	260631	-	see also 18053 line
40957	KCNJ15	NM_002243.3	758	cacgaacttgatgagatcttca	260643	-	see also 18054 line
40958	KCNJ15	NM_002243.3	820	agcggctgagaccatcaagttc	260645	-	see also 18054 line
40959	KCNJ15	NM_002243.3	1183	gccagagccgaacatcttatct	260646	-	see also 18054 line
40960	KCNJ16	NM_018658.1	776	ttcatcgtgcgcatctataaat	260663	-	see also 18055 line
40961	KCNJ16	NM_018658.1	1138	gcccaactctcgcctatacaga	260673	-	see also 18055 line
40962	KCNJ16	NM_018658.1	1223	tcctggtcaccccggttaactatt	260676	-	see also 18055 line
40963	KCNJ2	NM_000891.2	1645	tacggcgagagtcgagagatatga	260720	-	see also 18056 line
40964	KCNJ2	NM_000891.2	1146	gacagtggaatcgatcgatatatt	260705	-	see also 18056 line
40965	KCNJ2	NM_000891.2	1151	tggaatcgatcgatatattctgg	260707	-	see also 18056 line
40966	KCNJ4	NM_004981.1	893	gacgaggaacgcccgtttatgg	260728	-	see also 18057 line
40967	KCNJ4	NM_004981.1	1085	aaggtggactactcaactttca	260729	-	see also 18057 line
40968	KCNJ8	NM_004982.2	1303	acgcgttggtccattgact	260744	-	see also 18058 line
40969	KCNJ8	NM_004982.2	589	ggctgctctgcgtatcattgg	260734	-	see also 18058 line
40970	KCNJ9	NM_004983.2	530	gtggacgctgctgcgtcaaaccc	260751	-	see also 18059 line
40971	KCNJ9	NM_004983.2	347	gggcaacgtgcgcgagacatacc	260749	-	see also 18059 line
40972	KCNK1	NM_002245.2	855	accattggcctggggattatgt	260754	-	see also 18060 line
40973	KCNK1	NM_002245.2	903	ttcagagagctctataaagattgg	260756	-	see also 18060 line
40974	KCNK6	NM_004823.1	427	cagtgagctatgggtacacaaag	260760	-	see also 18061 line
40975	KCNK6	NM_004823.1	666	ctgggtcggcgctgctatcttc	260761	-	see also 18061 line
40976	KCNQ5	NM_019842.2	1700	aacattacgtccatatagttaa	260799	-	see also 18062 line
40977	KCNQ5	NM_019842.2	1868	gaccacagacgactcagtatgc	260805	-	see also 18062 line
40978	KCNE1	NM_000219.1	2082	tcgggttcgcacaaaacactct	260814	-	see also 18062 line
40979	KCNE1	NM_000219.1	334	tgctatgtctgtgaaacactct	260839	-	see also 18063 line
40980	KCNE1	NM_000219.1	267	gtccagatgcctgcagagaaagg	260836	-	see also 18063 line
40981	KCNE1	NM_000219.1	333	gtgctatgtcgttgaaacaccatc	260838	-	see also 18063 line
40982	KCNQ1	NM_000218.2	1484	acggctatgacagttctgtaagg	260845	-	see also 18064 line
40983	KCNQ1	NM_000218.2	1526	aagtgagcatgcccatcttcag	260846	-	see also 18064 line
40984	KCNK2	NM_014217.1	683	ggctctgcctgcgcatatttca	260885	-	see also 18065 line
40985	KCNK2	NM_014217.1	118	gtgacagaccattatgttatg	260861	-	see also 18065 line
40986	KCNAB1	NM_003471.2	808	tgcaaatcgaccgacagtaaca	260918	-	see also 18066 line
40987	KCNAB1	NM_003471.2	873	accaaggcatggcgtactctgg	260923	-	see also 18066 line
40988	KCNAB2	NM_003636.2	1220	atccacgagattgatagattttt	260954	-	see also 18067 line
40989	KCNAB2	NM_003636.2	581	cacataatcgaaggctgaagc	260947	-	see also 18067 line

1112

図46 (続き)

40990	KCNAB2	NM_003636.2	1214	tcattatccacgagattgatag	260953	-	see also 18067 line
40991	KCNAB3	NM_004732.2	1095	gtcagagtcggagcagttgatag	260969	-	see also 18068 line
40992	KCNAB3	NM_004732.2	1098	gagtcggagcagtgattagaac	260971	-	see also 18068 line
40993	KCNE2	NM_172201.1	291	cgtacatcgttggtgatagg	260974	-	see also 18069 line
40994	KCNE2	NM_172201.1	343	tggtagcacttggaatccaag	260975	-	see also 18069 line
40995	KCNE3	NM_005472.2	237	ggcgtgctgaaggctctaaatgc	260980	-	see also 3810 line
40996	KCNE4	NM_080671.1	186	ggcaacgagtaactctacattct	260991	-	channel
40997	KCNE4	NM_080671.1	575	ctcggaggaacatccatcagaatt	260993	-	see also 40996 line
40998	KCNE4	NM_080671.1	218	gtcctttacagggattttctga	260992	-	see also 40996 line
40999	KCNG3	NM_133329.4	1375	tggcaatcacgcggtattacatc	261002	-	see also 9564 line
41000	KCNG3	NM_133329.4	1376	ggcaatcacgcggtattacatc	261003	-	see also 9564 line
41001	KCNH6	NM_030779.2	1892	cgcgttagcgcgtcaagttcaaga	261035	-	see also 18072 line
41002	KCNH6	NM_030779.2	1894	cgttagcgcgtcaagttcaagacc	261036	-	see also 18072 line
41003	KCNH6	NM_030779.2	99	cacgtgctccccaacacactta	261022	-	see also 18072 line
41004	KCNQ2	NM_172106.1	944	gggagaaacacacatttgacacc	261044	-	see also 18073 line
41005	KCNQ2	NM_172106.1	912	ggcctgcttctggtgacttgg	261042	-	see also 18073 line
41006	KCNQ2	NM_004518.2	2136	caggcacggctcattgtcaaga	261048	-	see also 18074 line
41007	KCNQ2	NM_004518.2	2575	ggcaagtcagggccctacattgc	261050	-	see also 18074 line
41008	KCNQ3	NM_004519.2	1776	cgcattccagcgcgtcagaattc	261074	-	see also 3066 line
41009	KCNQ3	NM_004519.2	1784	gagccgtcagaattctacaattc	261077	-	see also 3066 line
41010	KCNQ3	NM_004700.2	1822	aactcgggtggaccacaaattggtg	261108	-	see also 18075 line
41011	KCNQ4	NM_004700.2	1177	ctgttactactatgacagtatcc	261104	-	see also 18075 line
41012	KCNV2	NM_133497.2	645	agcagcagcagcaactcttcttc	261112	-	see also 18076 line
41013	KCNV2	NM_133497.2	354	cagaggcgaactataactactac	261111	-	see also 18076 line
41014	KCNMB1	NM_004137.2	721	agggcagcgtggacaataaccaga	261118	-	see also 18077 line
41015	KCNMB1	NM_004137.2	717	tccacagcagcgtggacaattac	261117	-	see also 18077 line
41016	KCNMB2	NM_005832.3	563	tgcgtccatcacgggaacattta	261126	-	see also 18078 line
41017	KCNMB2	NM_005832.3	425	agggagaggaccgagctattctcc	261121	-	see also 18078 line
41018	KCNMB3	NM_014407.3	732	ttcttgctggagacaacaccattc	261147	-	see also 18079 line
41019	KCNMB3	NM_014407.3	736	tgtctggacaacaccattctaaag	261149	-	see also 18079 line
41020	KCNMB4	NM_014505.4	502	agcatcggcgtcggctgtttttot	261164	-	see also 18080 line
41021	KCNMB4	NM_014505.4	507	cggctcggctgttttctcaaca	261165	-	see also 18080 line
41022	HCN1	NM_021072.1	1452	ttgctaagtcgggacatccttaattt	261206	-	see also 8077 line
41023	HCN1	NM_021072.1	1790	gaccgactagatcgaatagaaga	261219	-	see also 8077 line
41024	HCN1	NM_021072.1	822	tgcgtttattacgactttcaagg	261188	-	see also 8077 line
41025	KCNK10	NM_021161.3	2031	ggccggagagaacactctact	261266	-	see also 8114 line
41026	KCNK10	NM_021161.3	1235	gagcgttgagtgccattact	261247	-	see also 8114 line
41027	KCNK12	NM_022055.1	370	ggcaccgtggtgtcaaccatagg	261269	-	see also 18083 line
41028	KCNK12	NM_022055.1	854	tgtctggcgtgtgtctcatttac	261270	-	see also 18083 line
41029	KCNK13	NM_022054.2	1082	ggcatgtacacccattgaagg	261273	-	see also 8253 line
41030	KCNK13	NM_022054.2	1398	tccggaaacgcgtgcaacatctcc	261277	-	see also 8253 line
41031	KCNK15	NM_022358.2	418	ccgcgtgacgtggtcactttcc	261282	-	channel
41032	KCNK16	NM_032115.2	595	ttcagcaggggcttctacttgc	261284	-	channel
41033	KCNK16	NM_032115.2	74	tgtctgctgggtccactcttcc	261283	-	see also 41032 line

1113

図46 (続き)

41034	KCNK17	NM_031460.2	860	tggcatgctggccttgatc	261288	-	see also 18085 line
41035	KCNK17	NM_031460.2	1032	ggacccatgggaatcatacgc	261293	-	see also 18085 line
41036	KCNK3	NM_002246.1	479	ccgcctcaagctcgtcgttcc	261294	-	channel
41037	KCNK4	NM_016611.2	702	caagctcgtgtgtctatagg	261307	-	voltage-gated ion channel
41038	KCNK4	NM_016611.2	625	gtccaccggagctagtaaggt	261304	-	see also 18086 line
41039	KCNK5	NM_003740.2	1647	gtcctcgtagagacacattgg	261321	-	see also 2553 line
41040	KCNK5	NM_003740.2	611	ttgcagcagcgtcattaccacc	261314	-	see also 2553 line
41041	KCNK7	NM_005714.1	921	ctggccagctcgcactcttgg	261325	-	see also 18088 line
41042	KCNK9	NM_016601.2	1098	gactctccatgcctattagc	261335	-	see also 18089 line
41043	KCNK9	NM_016601.2	477	acctgtgaagcgcattagaag	261329	-	see also 18089 line
41044	KCNK9	NM_016601.2	201	tccggatcaagggaagtacaac	261328	-	see also 18089 line
41045	CACNA2D	NM_000722.1	2083	atcatgtaacgcggttgatta	261419	-	see also 471 line
41046	CACNA2D	NM_000722.1	115	cccttcggccgtcactatcaaat	261337	-	see also 471 line
41047	CACNA2D	NM_000722.1	671	ggccttagctctatattaccgc	261366	-	see also 471 line
41048	CACNG1	NM_000727.2	481	tgcgaccgcgtccatgtctat	261465	-	see also 18091 line
41049	CACNG1	NM_000727.2	581	caccgtctggatcgagctactt	261469	-	see also 18091 line
41050	CACNB1	NM_000723.3	951	cactcgtgacggcagatattt	261477	-	see also 18092 line
41051	CACNB1	NM_000723.3	1924	tgggacgagggcgtctacattg	261483	-	see also 18092 line
41052	CACNB2	NM_000724.1	533	ggatcaggggtctctatgttctg	261484	-	see also 475 line
41053	CACNB2	NM_000724.1	1766	gcgtacattgccacatcaagt	261524	-	see also 475 line
41054	CACNB4	NM_000726.1	867	aagaggtctgtcttaataatcc	261547	-	see also 18094 line
41055	CACNB4	NM_000726.1	690	ggacaaattcctctacatgt	261544	-	see also 18094 line
41056	CACNG2	NM_006078.2	866	tgtcggcggtgacatgtttatc	261567	-	see also 4221 line
41057	CACNG2	NM_006078.2	870	ggcggtgacacatgtttatcgacc	261568	-	see also 4221 line
41058	CACNG3	NM_006539.2	1285	ggcacgactactggttatattc	261574	-	see also 4572 line
41059	CACNG4	NM_014405.2	247	ggcacgtcttcgggataatca	261600	-	see also 5663 line
41060	CACNG5	NM_014404.1	259	tccgagtcacgggtcaatgtot	261611	-	see also 18098 line
41061	CACNG5	NM_014404.1	267	cacggfcaatgttctaagatga	261614	-	see also 18098 line
41062	CACNG7	NM_031896.3	248	ttctgaacccggagatcaattg	261628	-	see also 9047 line
41063	CACNG8	NM_031895.4	446	cacgacagcgcggagtgatctact	261641	-	see also 9047 line
41064	CACNG8	NM_031895.4	401	gtctcgtggaagatcaatatt	261639	-	see also 2233 line
41065	TRPC1	NM_003304.3	2243	ctgcctagtcgactcgttactga	261718	-	see also 2233 line
41066	TRPC1	NM_003304.3	2245	gactagtcacgttacttactgact	261719	-	see also 2233 line
41067	TRPC3	NM_003305.1	1052	cactcacgctcggagatcaatgc	261727	-	see also 2243 line
41068	TRPC3	NM_003305.1	1336	ttcataagtcgtgcaaatg	261730	-	see also 2243 line
41069	TRPC3	NM_003305.1	2740	aacacgttatacgaagataatga	261764	-	see also 2243 line
41070	TRPC5	NM_012471.1	2811	tgcctgactgctgatatcgagt	261804	-	see also 5345 line
41071	TRPC5	NM_012471.1	2698	cacgaattcacccgagttgttagg	261802	-	see also 5345 line
41072	TRPC5	NM_012471.1	2115	cccaactcgtggaaatgagatga	261782	-	see also 5345 line
41073	TRPC6	NM_004621.3	696	atcgctcacgaagcctatctata	261834	-	see also 3141 line
41074	TRPC6	NM_004621.3	787	atggcaactcaactcaactgaact	261840	-	see also 3141 line
41075	TRPM1	NM_002420.3	4684	ctcgtgtccctcaactact	261979	-	see also 18104 line
41076	TRPM1	NM_002420.3	4398	ttcccgatgaacgatcaatgc	261967	-	see also 18104 line

1114

図46 (続き)

41077	TRPM1	NM_002420.3	3403	tcacgagatatacagctgattatg	261943	-	see also 18104 line
41078	TRPM3	NM_020952.1	5	atgtgcaggtatcttttgataca	261986	-	see also 8046 line
41079	TRPM3	NM_020952.1	427	gacaaacgggacacactggaaaaata	261995	-	see also 8046 line
41080	SCN11A	NM_014139.1	4573	tcacgagctcttcagaaatgtcc	262208	-	see also 5511 line
41081	SCN11A	NM_014139.1	5287	ctctgattggcctcagatagtaga	262224	-	see also 5511 line
41082	SCN11A	NM_014139.1	1070	atcagtaaccaggaaagcttatga	262124	-	see also 5511 line
41083	SCN1B	NM_001037.2	395	acgcctgctcttttcgaaac	262230	-	see also 639 line
41084	SCN1B	NM_001037.2	398	gocctcttttcgaaaaactac	262231	-	see also 639 line
41085	SCN2B	NM_004588.2	472	aggatgaggagatttaacaactgc	262243	-	see also 18108 line
41086	SCN2B	NM_004588.2	155	caaggggctcagctctcttttct	262239	-	see also 18108 line
41087	SCN3B	NM_018400.2	998	ggcggaggggcggtaagatttcc	262248	-	see also 7447 line
41088	SCN3B	NM_018400.2	1370	ctgctcactcagagatgatatg	262253	-	see also 7447 line
41089	SCN5A	NM_000335.3	4904	caaggcggagtgtatgtcaagc	262294	-	see also 18110 line
41090	SCN5A	NM_000335.3	2917	agggtcggggcagctcattatgc	262278	-	see also 18110 line
41091	SCN7A	NM_002976.1	3832	accagttactcgcgccattaaaca	262390	-	see also 18111 line
41092	SCN7A	NM_002976.1	1551	ggccattatactgtataagttt	262329	-	see also 18111 line
41093	SCN7A	NM_002976.1	740	ttcattccacgcttccaaactgc	262312	-	see also 18111 line
41094	ACCN2	NM_001095.2	1688	agcctggagcagcagctcaaaagaca	262449	-	see also 18112 line
41095	ACCN2	NM_001095.2	412	caggagcagctgtcagctactact	262441	-	see also 18112 line
41096	ACCN2	NM_001095.2	1597	cgctacagggctcattaaagcaca	262447	-	see also 18112 line
41097	ACCN3	NM_004769.1	209	ctgagagaggtgcgtactacagg	262451	-	see also 18113 line
41098	ACCN3	NM_004769.1	882	atctgtaaccccccaactatgagc	262454	-	see also 18113 line
41099	APXL	NM_001649.2	524	ggcgacacacagcggagttctcc	262463	-	see also 1092 line
41100	APXL	NM_001649.2	4662	tcocctgtatcggaactactgc	262486	-	see also 1092 line
41101	APXL	NM_001649.2	580	aaactacagcgcacacttagatca	262464	-	see also 1092 line
41102	SCNN1B	NM_000336.1	1203	ggcgtgcacacgtgaatgttct	262499	-	see also 18115 line
41103	SCNN1B	NM_000336.1	1222	ttctgaggtcccggtccaaact	262500	-	see also 18115 line
41104	SCNN1D	NM_002978.2	945	gtctctctcgtcagttacagtagg	262512	-	see also 18116 line
41105	SCNN1D	NM_002978.2	624	ggatttgcaggaggagacattga	262510	-	see also 18116 line
41106	SCNN1G	NM_001039.1	1796	acgatgaactccacacttccaac	262535	-	see also 18117 line
41107	SCNN1G	NM_001039.1	651	caccttcagctcgggaatcaatg	262520	-	see also 18117 line
41108	ACCN4	NM_018674.3	910	agctcgcgcacatgcttaagagc	262536	-	see also 7548 line
41109	ACCN4	NM_018674.3	1346	ctgcgggtcgcgtgtgaaaaagg	262542	-	see also 7548 line
41110	ACCN5	NM_017419.1	326	aagctccattgagtttcaatg	262557	-	see also 18119 line
41111	ACCN5	NM_017419.1	1313	tagtgaactaaactaagataa	262577	-	see also 18119 line
41112	CATSPER	NM_053054.2	311	ccctccggagttccaaacttcc	262589	-	see also 9488 line
41113	CATSPER	NM_053054.2	245	cagagctccaccattacaggt	262588	-	see also 9488 line
41114	CATSPER	NM_054020.2	400	accagctagtcgtttctctata	262618	-	see also 9497 line
41115	CATSPER	NM_054020.2	339	cacactatcaggagttactga	262614	-	see also 9497 line
41116	CATSPER	NM_178019.1	1100	tagctaccctctcagctatct	262656	-	see also 18122 line
41117	CATSPER	NM_178019.1	88	agcgcactcagagctatttct	262635	-	see also 18122 line
41118	MCOLN3	NM_018298.9	452	gtgaggtgtatcagtaaatc	262672	-	see also 18123 line
41119	MCOLN3	NM_018298.9	1591	ctgatactatcactacagaac	262712	-	see also 18123 line
41120	MGC15619	NM_032369.1	1013	tcagcccgacaaagaataactat	262719	-	see also 18124 line

図 46 (続き)

1115

41121	MGC15619	NM_032389.1	1307	aacggcaactttaaggttaaaa	262728	-	see also 18124 line
41122	NOLA1	NM_018983.2	505	ctccagaacgtgtagcttatta	262734	-	see also 18125 line
41123	NOLA1	NM_018983.2	503	actocagaacgtgtagcttatt	262733	-	see also 18125 line
41124	TPCN1	NM_017901.3	2324	gagcatcatgtgcgtttatcc	262782	-	see also 18126 line
41125	TPCN1	NM_017901.3	889	cocgagcactgcgtgcatttc	262739	-	see also 18126 line
41126	TPCN1	NM_017901.3	1799	ttcggatgaactgtttgaact	262756	-	see also 18126 line
41127	TPCN2	NM_139075.1	325	gaggttattactgaacgtatgc	262770	-	see also 18127 line
41128	TPCN2	NM_139075.1	314	gtgctttaccgacggtattact	262768	-	see also 18127 line
41129	TRPM4	NM_017636.2	3438	aacgtggaatcgtgtcataagg	262810	-	see also 18128 line
41130	TRPM4	NM_017636.2	1056	aggcgaagcccgagatgaatca	262799	-	see also 18128 line
41131	TRPM5	NM_014555.2	1719	cacgcgcgaggcgaataacgagc	262816	-	see also 18129 line
41132	TRPM5	NM_014555.2	1716	agccacgcgcgaggcgaataacg	262815	-	see also 18129 line
41133	TRPM5	NM_014555.2	2546	cgcgcgcgtgcatcatctttt	262820	-	see also 18129 line
41134	VGCN1	NM_052867.1	1522	tcggagtagtctggctgataag	262883	-	see also 18130 line
41135	VGCN1	NM_052867.1	1440	ttcgaactactactgttaattgg	262878	-	see also 18130 line
41136	OLCA1	NM_001285.1	2891	ttgataaggtcgatcgaaatca	263041	-	see also 18131 line
41137	CLCA1	NM_001285.1	1454	gggacacactcgccaaaagatta	263013	-	see also 18131 line
41138	CLCA2	NM_006536.3	620	ggggtgtgttcgatgagataac	263060	-	see also 4569 line
41139	CLCA2	NM_006536.3	118	aggagcattcgagctctatttg	263048	-	see also 4569 line
41140	CLCA4	NM_012128.2	562	ttctacgtcttaagtcataaaaa	263150	-	see also 18133 line
41141	CLCA4	NM_012128.2	2125	ctgaatagcgcggtacatacc	263183	-	see also 18133 line
41142	CLCN1	NM_000083.1	1726	ttcgaattaacgggtcagatcgc	263231	-	see also 55 line
41143	CLCN1	NM_000083.1	2746	ttcggaaacacagacttoaacctg	263237	-	see also 55 line
41144	CLCN1	NM_000083.1	1346	cocgcgaagccatcagactttg	263227	-	see also 55 line
41145	CLCN2	NM_004366.2	751	tgcttcgcggcactatggaggg	263250	-	see also 2927 line
41146	CLCN2	NM_004366.2	2476	ctcattggaatcgttactctaaa	263261	-	see also 2927 line
41147	CLCN3	NM_001829.1	1735	gtcgcagcgaagtcacacgaattt	263293	-	see also 1182 line
41148	CLCN3	NM_001829.1	2176	aggtcggggcgtgattgattaca	263305	-	see also 1182 line
41149	CLCN4	NM_001830.2	1203	ggcgtgttttcagctcagaaga	263336	-	see also 1188 line
41150	CLCN4	NM_001830.2	2641	acccgaatccatcatgtttaat	263355	-	see also 1188 line
41151	CLCN5	NM_000084.1	1159	ttcaactaagctcactcaatcc	263384	-	see also 56 line
41152	CLCN5	NM_000084.1	498	ttcgttagctgtgtttgtagaca	263370	-	see also 56 line
41153	CLCN5	NM_000084.1	1192	agccgcctggtactattttatgt	263387	-	see also 56 line
41154	CLCN6	NM_001286.1	692	acggaagatcactgttttaactcc	263418	-	see also 847 line
41155	CLCN6	NM_021736.1	969	ggcggatttaagagatcttagaga	263445	-	see also 18138 line
41156	CLCN7	NM_001287.3	646	cagcggaaatccccacacaaagt	263448	-	see also 18139 line
41157	CLCN7	NM_001287.3	1228	ctggtgaccatgtttcgaatca	263460	-	see also 18139 line
41158	CLCNKA	NM_004070.2	1930	accaggcacaaaactctttaag	263468	-	see also 18140 line
41159	CLCNKA	NM_004070.2	1922	caccttgaccacaggacaaaacc	263467	-	see also 18140 line
41160	CLCNKB	NM_000085.1	1353	ttggggagagactctctctttatc	263470	-	channel
41161	CLCNKB	NM_000085.1	1310	ttcatgccactctttgtctatgg	263469	-	voltage-gated chloride channel
41162	CLCNKB	NM_000085.1	1356	ggagagactctctctttatcttc	263471	-	Bartter syndrome(ハーター症候群)
41163	CLIC1	NM_001288.3	600	aaccagcaactcaatgacaatct	263477	-	see also 41160 line
						-	see also 41160 line
						-	see also 848 line

図46 (続き)

1116

41164	CLIC1	NM_001288.3	596	ttcaaacccagcactcaatgaca	263476	-	see also 848 line
41165	CLIC2	NM_001289.3	754	agctaacactgctgatttagc	263495	-	see also 18141 line
41166	CLIC2	NM_001289.3	428	ttctcgtctctgctgataaca	263488	-	see also 18141 line
41167	CLIC2	NM_001289.3	848	ctcaggagctctggcgttatctcc	263498	-	see also 18141 line
41168	CLIC3	NM_004669.2	653	cgcgatgcaggagaaagattca	263500	-	channel, voltage-gated
41169	CLIC3	NM_004669.2	98	ctctgcacagcgtctctctatgg	263499	-	signal transduction
41170	CLIC4	NM_013943.1	855	tacttaactaatcatcacatag	263510	-	see also 41168 line
41171	CLIC4	NM_013943.1	408	cccgagaccacaccacatttat	263504	-	see also 18142 line
41172	CLIC5	NM_016929.1	635	cagcgggcatcgacatcttttcc	263522	-	see also 18143 line
41173	CLIC5	NM_016929.1	536	acgtgaagacagacgtcaataag	263518	-	see also 18143 line
41174	CLIC6	NM_053277.1	1366	ttcgtcaaggctggttatgtgg	263528	-	see also 9489 line
41175	CLIC6	NM_053277.1	1435	ctctgctgaaggcgttatatt	263532	-	see also 9489 line
41176	LGIC2	NM_180990.2	257	gtggacatctcgatcacacat	263551	-	see also 18145 line
41177	LGIC2	NM_180990.2	901	ctgcaaccactgctcattact	263561	-	see also 18145 line
41178	FXD1	NM_005031.3	279	aagatccggatgaagttcaacc	263566	-	see also 18146 line
41179	FXD1	NM_005031.3	108	ggcgtctctggccacatcttgg	263564	-	see also 18146 line
41180	FLJ12770	NM_032174.3	821	tacactgggtagctacattgaat	263578	-	see also 18147 line
41181	FLJ12770	NM_032174.3	307	ctgcaacgtctatgaagatgt	263569	-	see also 18147 line
41182	VDAC1	NM_003374.1	474	ggcgtcgacatggatttcgaca	263590	-	see also 18148 line
41183	VDAC1	NM_003374.1	293	ctgagtaaggctgacgtttaca	263588	-	see also 18148 line
41184	VDAC3	NM_005662.3	823	ctgattgactggtattactca	263606	-	see also 18149 line
41185	VDAC3	NM_005662.3	870	gactttatcagcttaattcgtg	263610	-	see also 18149 line
41186	FXD6	NM_022003.1	213	ctcgttggtggtctccttattcc	263612	-	see also 18151 line
41187	FXD7	NM_022006.1	268	acctgaactcctgaagtctga	263617	-	see also 18152 line
41188	FXD7	NM_022006.1	122	aggaactgacccattttactat	263614	-	see also 18152 line
41189	MLC1	NM_015166.2	417	ttccgctgagatggattacttg	263618	-	see also 6260 line
41190	MLC1	NM_015166.2	549	ctgtgaccactacgtgttaatt	263622	-	see also 6260 line
41191	TM4SF11	NM_015993.1	132	gcgagttccctcgtgaaagttag	263637	-	see also 18154 line
41192	TM4SF11	NM_015993.1	455	cagcgccacccgtctctacatca	263639	-	see also 18154 line
41193	CX36	NM_020660.1	311	agcgagaacgcgcctactctaca	263641	-	see also 18155 line
41194	CX36	NM_020660.1	876	gtcaatctatgagattcgttaaca	263659	-	see also 18155 line
41195	CX40.1	NM_153368.1	331	agcgggagtcgcccaatgttgc	263663	-	see also 18156 line
41196	CX40.1	NM_153368.1	335	ggagatgcgcaatgtttgctacg	263664	-	see also 18156 line
41197	CX62	NM_032602.1	865	cagcaagtoattcagttatgt	263691	-	see also 18157 line
41198	CX62	NM_032602.1	453	atgtctcgtcgtactatgtct	263679	-	see also 18157 line
41199	GJA1	NM_000165.2	722	tcagttggtacatctatgatttc	263718	-	see also 18158 line
41200	GJA1	NM_000165.2	659	tgtcgcacacatacatatcagt	263715	-	see also 18158 line
41201	GJA4	NM_002060.1	115	ctcgaccctgtgtggtaagatct	263736	-	connexon channel
41202	GJA5	NM_005266.4	694	caccctgtaactgttactgattc	263742	-	atherosclerosis(粥状硬化症)
41203	GJA5	NM_005266.4	695	accggtcaactgttaactatcc	263743	-	see also 18160 line
41204	GJA5	NM_005266.4	690	ttccaccacccggtcaactgttaacg	263741	-	see also 18160 line
41205	GJA7	NM_005497.1	903	caccgaactgttccaatgctaaga	263772	-	see also 3836 line
41206	GJA7	NM_005497.1	808	gaggatccgggtgcttaatta	263766	-	see also 3836 line

図46 (続き)

1117

41207	GJB1	NM_000166.2	160	ggcgtgaacccgcattctactgc	263775	-	see also 136 line
41208	GJB1	NM_000166.2	309	cagcgttgtctatgaccaattct	263781	-	see also 136 line
41209	GJB2	NM_004004.2	815	atgtoactgaattgtgtatttg	263791	-	see also 18162 line
41210	GJB2	NM_004004.2	522	ggggagagaagaagatgaattta	263790	-	see also 18162 line
41211	GJB4	NM_153212.1	769	cccgatagctgcccaccattatgt	263800	-	see also 18163 line
41212	GJB4	NM_153212.1	528	ccgcctctacaaggattatgaca	263797	-	see also 18163 line
41213	GJB5	NM_005268.2	278	tgtccacagctctgtttgaga	263805	-	see also 18164 line
41214	GJB5	NM_005268.2	595	cgagatccatctgtcccaatag	263808	-	see also 18164 line
41215	GJE1	NM_181538.1	515	aaccttgcttggtagtataacc	263812	-	see also 18165 line
41216	GJE1	NM_181538.1	594	cagcggttctgtctctgttta	263813	-	see also 18165 line
41217	AQP2	NM_000486.3	662	gtcgtcaactggcaattgtatga	263816	-	water channel
41218	AQP2	NM_000486.3	252	tacagctctggggcacaataagc	263815	-	diabetes insipidus(尿崩症)
41219	AQP4	NM_001650.3	246	acgggtcgacatggttctcatct	263818	-	see also 41217 line
41220	AQP4	NM_001650.3	605	ctggctcaatagcttttagcaatt	263826	-	see also 1093 line
41221	AQP5	NM_001651.1	1036	acctgtcggaatctacttcaact	263844	-	see also 18167 line
41222	AQP5	NM_001651.1	1031	ggcccaactgtcggaatctact	263842	-	see also 18167 line
41223	AQP6	NM_001652.2	1012	tcctggcctcactgatataaac	263849	-	see also 18168 line
41224	AQP6	NM_001652.2	1015	tggcctcactgatatacaacttc	263850	-	see also 18168 line
41225	AQP8	NM_001169.1	800	tcttgttggaactgtctcattagg	263858	-	see also 18169 line
41226	AQP8	NM_001169.1	237	cggtgctgtcgttcattgaga	263854	-	see also 18169 line
41227	AQP9	NM_020980.2	561	gtctcttggacagcggaaatgg	263867	-	see also 18170 line
41228	AQP9	NM_020980.2	640	aaccgtcttggcattctactatg	263869	-	see also 18170 line
41229	SLG14A1	NM_015865.1	713	tggcgtgtcaatgtacacttcca	263885	-	see also 18171 line
41230	SLG14A1	NM_015865.1	1114	gcctgttcaacggcctactctgg	263897	-	see also 18171 line
41231	AQP1	NM_000385.3	332	tcctggcctcactgatatacaatc	263903	-	see also 18172 line
41232	AQP1	NM_000385.3	654	cggggtgatcacacacacttcca	263906	-	see also 18172 line
41233	AQP10	NM_080429.2	224	ggctctctggccgttactagatgc	263910	-	see also 18173 line
41234	AQP10	NM_080429.2	328	ctgggtcaagctccattattaca	263911	-	see also 18173 line
41235	FLJ20130	NM_017681.1	442	tgttgggacacacattgattg	263929	-	see also 18174 line
41236	FLJ20130	NM_017681.1	333	tagcaactcctgtgatgacatgt	263922	-	see also 18174 line
41237	LOC12940	NM_138285.2	521	agccacgaagaagacacattatct	263945	-	see also 18175 line
41238	LOC12940	NM_138285.2	520	cagccacgaagaagacacattatc	263944	-	see also 18175 line
41239	NUP214	NM_005085.2	1093	atccttgtctgacaaaagtgtatca	263998	-	see also 18176 line
41240	NUP214	NM_005085.2	1199	tgggagttgtcgttagactatata	264003	-	see also 18176 line
41241	NUP50	NM_007172.2	955	tgtcctgtcggggatggatgt	264083	-	see also 18177 line
41242	NUP50	NM_007172.2	1257	agcgacaagtgccttaatttaatt	264091	-	see also 18177 line
41243	NUP54	NM_017426.2	1566	atcattaaagcagctatagaaga	264143	-	see also 18178 line
41244	NUP54	NM_017426.2	862	ttgagcgttcgccaaatgttact	264111	-	see also 18178 line
41245	PCNT1	NM_024844.2	1284	ggatcacgctcgggactgttttgc	264176	-	see also 18179 line
41246	PCNT1	NM_024844.2	231	atctatcatcctgaaggatgt	264152	-	see also 18179 line
41247	ROPN1	NM_017578.2	918	ggcctgtatggtataatcacagt	264197	-	kinase related
41248	SYNPR	NM_144642.3	533	aacggatcccaaggagatttgc	264206	-	signal transduction
41249	SYNPR	NM_144642.3	179	ggattgagactgctgctcaacaaga	264198	-	see also 18180 line

図46 (続き)

1118

41250	MAL	NM_002371.2	481	tccatgcgggtgtctctttaac	264221	-	see also 18181 line
41251	STEAP	NM_012449.2	1053	tgttatcacctccaactttat	264231	-	see also 18182 line
41252	STEAP	NM_012449.2	960	cagagaagctaggaattgttc	264224	-	see also 18182 line
41253	ATP6V0A2	NM_012463.1	1108	ctcggatcgcaccacaatttc	264250	-	see also 18183 line
41254	ATP6V0A2	NM_012463.1	2056	acggagagtgctacacactata	264274	-	see also 18183 line
41255	C10orf26	NM_017787.2	395	accgagaagcccaactactca	264289	-	see also 18184 line
41256	C10orf26	NM_017787.2	183	ctgtgtgtgtaccacaactcaaa	264286	-	see also 18184 line
41257	C14orf4	NM_024496.2	3231	ggcgaatgcgactactattagc	264311	-	see also 18185 line
41258	C14orf4	NM_024496.2	3192	cccttagtcgggtcgaagtacc	264308	-	see also 18185 line
41259	C14orf52	NM_145165.1	364	ggcgaagatactatcagattct	264326	-	see also 18186 line
41260	C14orf52	NM_145165.1	363	agcgaagatactatcagatttc	264325	-	see also 18186 line
41261	C5orf12	NM_178276.2	397	tgcggtgtatagagctgttttg	264331	-	see also 18187 line
41262	C5orf12	NM_178276.2	398	ggcgtgtatagagctgttttgg	264332	-	see also 18187 line
41263	CGI-07	NM_015938.2	1358	aagtcagcgtcgtgtagaaactgg	264394	-	see also 6577 line
41264	CGI-07	NM_015938.2	393	ggatgaaggtacggctgtgatgg	264364	-	see also 6577 line
41265	CYC1	NM_001916.2	163	ttcccgagggccggaaagtgtatgc	264398	-	see also 18188 line
41266	CYC1	NM_001916.2	518	ttcgactattcccaaaaacata	264403	-	see also 18188 line
41267	DEGS	NM_003876.2	521	ctgatggcgtcgtatgatatt	264425	-	see also 18189 line
41268	DEGS	NM_003876.2	527	gcctgatgtatgatattctacc	264427	-	see also 18189 line
41269	DISP1	NM_032890.2	2878	ggcgcgaggttgatcaatga	264520	-	see also 9337 line
41270	DISP1	NM_032890.2	1459	accccaagacggctgactatgc	264478	-	see also 9337 line
41271	DKFZp434	NM_032259.1	1120	agcgcacggtaaacaaagtctgc	264568	-	see also 18191 line
41272	F054	NM_032259.1	1116	cacaagcgcacggtaaac-aaagt	264567	-	see also 18191 line
41273	DKFZP564	NM_032125.1	60	gacggacatgaagcaatatcaag	264578	-	see also 9078 line
41274	D0478	NM_032125.1	365	agcacgcgcgcacaaatctctgc	264582	-	see also 9078 line
41275	EHZF	NM_015461.1	737	caagtcacaacagccatataaat	264600	-	see also 6424 line
41276	EHZF	NM_015461.1	3666	ttgaaacagccccaagtataacc	264666	-	see also 6424 line
41277	ERdj5	NM_018981.1	1666	ggcgtctctagcagctatttaag	264716	-	see also 7636 line
41278	ERdj5	NM_018981.1	757	ctggaactattatcgtatgatt	264688	-	see also 7636 line
41279	ETFA	NM_000126.1	37	ggcgccctcattgctcagatttca	264761	-	see also 99 line
41280	ETFA	NM_000126.1	39	ggcctcattgctcagatttcaga	264762	-	see also 99 line
41281	ETEB	NM_001985.1	402	ggccatcatgatgactgttaacc	264781	-	electron transfer flavoprotein
41282	ETEB	NM_001985.1	486	gacgtcgaaggagcaagtga	264782	-	glutaricaciduria(グルタル酸尿症)
41283	FBLP-1	NM_017556.1	950	cccggaagaacctgttgagaag	264784	-	see also 41281 line
41284	FBLP-1	NM_017556.1	466	gggtggcatcgtctgtctttatc	264783	-	see also 18196 line
41285	FLJ10900	NM_018264.1	2050	ctgatcccggaatatgaattgc	264792	-	see also 18197 line
41286	FLJ10900	NM_018264.1	2054	ttcccgaatatgaattgcattgt	264793	-	see also 18197 line
41287	FLJ12519	NM_032168.1	918	cccggttttaggagctactattg	264824	-	see also 18198 line
41288	FLJ12519	NM_032168.1	856	ggcggctgtgaatctgtacttgt	264820	-	see also 18198 line

1119

図46 (続き)

41289	FLJ12519	NM_032168.1	910	gattttccgcggttttagggagc	264823	-	see also 18198 line
41290	FLJ14627	NM_032814.1	1058	ggggatcgcagactttgttcga	264870	-	see also 18199 line
41291	FLJ14627	NM_032814.1	1056	gtgggattcgcagactttgttct	264869	-	see also 18199 line
41292	FLJ20095	NM_017666.1	2219	ttcttcagcttagatcgtatgg	264936	-	see also 18201 line
41293	FLJ20095	NM_017666.1	1870	agccaaggaggacgtatagctaa	264928	-	see also 18201 line
41294	FLJ20511	NM_017853.1	324	aattagacacagcgataaaagt	264945	-	see also 18202 line
41295	FLJ20511	NM_017853.1	329	gaccagcgataaaagctatgc	264946	-	see also 18202 line
41296	FLJ20511	NM_017853.1	571	atctccagatcacactaagtgtg	264950	-	see also 18202 line
41297	FLJ22625	NM_024715.2	1309	aacggtagtgcactgtacttgt	264964	-	see also 18203 line
41298	FLJ22625	NM_024715.2	737	tctcggctgtggcaggtatgg	264957	-	see also 18203 line
41299	FLJ23537	NM_024889.2	840	ggggagctcggccattaaaaaga	264994	-	see also 18204 line
41300	FLJ23537	NM_024889.2	838	aagagagctcggccattaaaaaa	264993	-	see also 18204 line
41301	FLJ23537	NM_024889.2	435	ctcactaatgtgtgcaattgt	264986	-	see also 18204 line
41302	FLJ25369	NM_152670.1	615	gtcttcattgccatagtagcaag	265002	-	see also 18205 line
41303	FLJ25369	NM_152670.1	657	ggggacctgtatgccattttac	265004	-	see also 18205 line
41304	FLJ25369	NM_152670.1	341	gggtacctgtgttcaaaagacc	264999	-	see also 18205 line
41305	FLJ31384	NM_152472.1	1135	gtgtgtaaggctcaaatcact	265007	-	see also 18206 line
41306	FLJ31384	NM_152472.1	1142	aaggctcaaatcactgtattga	265010	-	see also 18206 line
41307	FLJ40417	NM_173650.1	438	cagcacaccggctgtccaaaagt	265011	-	see also 18207 line
41308	FLJ40417	NM_173650.1	563	gattatcacttgggtagggaact	265014	-	see also 18207 line
41309	GLRX	NM_002064.1	169	aaccacactaacagagattcaaga	265026	-	see also 18208 line
41310	GLRX	NM_002064.1	219	aacggctcctcagctctttattg	265028	-	see also 18208 line
41311	GLRX2	NM_016066.3	665	aaacatttctgataattgtgtg	265039	-	see also 18209 line
41312	GLRX2	NM_016066.3	716	ctgtacaatggcaaaaagcttt	265041	-	see also 18209 line
41313	HCA127	NM_018684.1	675	ttacccgggaatgcacccattatgc	265047	-	see also 18210 line
41314	HCA127	NM_018684.1	658	gtcatgtcacagcaaatcaacc	265046	-	see also 18210 line
41315	HECA	NM_016217.1	1808	tgcagtaactctccgaatatagc	265066	-	see also 18211 line
41316	HECA	NM_016217.1	340	agcggcgacagcagcgaataatgg	265048	-	see also 18211 line
41317	IMAGE:421					-	
41317	5339	NM_052878.1	383	ccccaaagcgtcgcgaacatct	265067	-	
41318	IMAGE:421					-	
41318	5339	NM_052878.1	427	tcagaacgccatcatcgaagg	265068	-	see also 41317 line
41319	KIAA0528	NM_014802.1	948	aacggcgtgtactctgataaat	265092	-	see also 5996 line
41320	KIAA0528	NM_014802.1	2595	caaggcagtcgaatcaacttttg	265151	-	see also 5996 line
41321	KIAA0528	NM_014802.1	1315	caagtgggggtgttagtagc	265102	-	see also 5996 line
41322	KIAA1441	NM_020832.1	2450	gacgtcgcactcgcaggtttcc	265184	-	see also 7985 line
41323	KIAA1441	NM_020832.1	3160	gagttacccctcagcagattgc	265191	-	see also 7985 line
41324	LOC15248	NM_178835.2	644	tccggattcagccatccctaaac	265268	-	see also 18215 line
41325	LOC15248	NM_178835.2	2895	aagccccccagcgaatcaaatag	265290	-	see also 18215 line
41326	LOC20447	NM_174924.1	826	aacgtttggagatcaacgattg	265302	-	see also 18216 line
41327	LOC20447	NM_174924.1	1069	ctccaaaagctccgcgtcatatg	265312	-	see also 18216 line
41328	LOC20447	NM_174924.1	1079	tccgagtcataatggtatcataat	265314	-	see also 18216 line
41329	LOC51061	NM_015914.2	314	cagtcagcaaaagatgtgtataa	265341	-	see also 6568 line
41330	LOC51061	NM_015914.2	311	ctgcagtcgagcaaaagatgtga	265340	-	see also 6568 line

1120

図46 (続き)

41331	LOC51066	NM_015931.1	520	taccgtctggagacatttagtga	265387	-	see also 18218 line
41332	LOC51066	NM_015931.1	1188	cacagaggttccactattgtacc	265395	-	see also 18218 line
41333	LOC51257	NM_016496.3	707	caagctgggtgcccgtgcataaga	265398	-	see also 18219 line
41334	LOC51257	NM_016496.3	709	cgctgggtgcccgtgcataagagc	265399	-	see also 18219 line
41335	LOC90837	NM_182491.1	532	tacataccgttgcctcaaaagagg	265407	-	see also 18220 line
41336	LOC90837	NM_182491.1	366	caataaagtcctgttgcattc	265404	-	see also 18220 line
41337	MB	NM_005368.1	312	ggcatatgagggcagagattaaag	265414	-	see also 18221 line
41338	MB	NM_005368.1	282	ccgcccctgggtggcatccttaag	265411	-	see also 18221 line
41339	MGC10986	NM_030576.2	302	tgttggcagcaagcagctatttcc	265415	-	see also 41339 line
41340	MGC10986	NM_030576.2	306	ggcgcacaagcctcatttccaca	265416	-	see also 18222 line
41341	MGC14353	NM_032731.2	160	cgctactttacgggttctaaagg	265417	-	see also 18222 line
41342	MGC14353	NM_032731.2	348	cagcagtgccctacactaactaaag	265422	-	see also 18222 line
41343	MGC15482	NM_032875.1	456	ggcggagtagtgaggagaatttcc	265435	-	see also 18223 line
41344	MGC15482	NM_032875.1	952	gggggtgccaataagttacaatcc	265456	-	see also 18223 line
41345	MGC33414	NM_173574.1	1533	accagggggcactagatcttatg	265476	-	see also 18224 line
41346	MGC33414	NM_173574.1	1077	tcttgaagtagtcaacatattgt	265472	-	see also 18224 line
41347	MGC33414	NM_173574.1	1532	cacagggggcactagatcttat	265475	-	see also 18224 line
41348	MGC34648	NM_152660.1	676	gagtaaatcaacaactaatggaga	265483	-	see also 9910 line
41349	MGC34648	NM_152660.1	995	cagagaagtcagaggagctataacc	265487	-	see also 9910 line
41350	MGC48332	NM_178450.2	862	gacactagtcatttagtagtacc	265498	-	see also 10189 line
41351	MGC48332	NM_178450.2	779	gaccacctgacatttagtagtgc	265495	-	see also 10189 line
41352	N33	NM_006765.2	446	caccacctgaaactatttccatg	265505	-	see also 4771 line
41353	N33	NM_006765.2	447	accacctgaaactatttccatga	265506	-	see also 4771 line
41354	NCF2	NM_000433.1	609	agctgttccgaccaaattgagaga	265541	-	see also 18228 line
41355	NCF2	NM_000433.1	605	ggcaagctgtttgcgaccaaataga	265540	-	see also 18228 line
41356	NCF4	NM_000631.2	278	tcttcatcgaggtgaagacaaaa	265553	-	see also 18229 line
41357	NCF4	NM_000631.2	749	tcttcatcgaggtgaagacaaaa	265556	-	see also 18229 line
41358	NSE1	NM_145080.2	542	cgagggaagatctgcaaatatct	265573	-	see also 9775 line
41359	NSE1	NM_145080.2	728	gaggggagctcgggtgtgtgaaat	265574	-	see also 9775 line
41360	OSR1	NM_145260.1	953	acctcggagaccacagatatatt	265579	-	see also 18231 line
41361	OSR1	NM_145260.1	1067	aggtgaagagagctcaaaacctcc	265581	-	see also 18231 line
41362	OSR2	NM_053001.1	1026	tgcggcagacacttaccacatc	265586	-	see also 18232 line
41363	OSR2	NM_053001.1	761	gcctttaccaccacactattcc	265583	-	see also 18232 line
41364	PDC	NM_002597.3	467	aagatcaccacaaattgtgttca	265601	-	see also 18233 line
41365	PDC	NM_002597.3	355	tagacaagtgatcaggatattgc	265595	-	see also 18233 line
41366	PGBD3	NM_170753.1	908	gagtgaccoggtttgaaactata	265645	-	see also 18234 line
41367	PGBD3	NM_170753.1	911	gtgaccoggtttgaaactatttt	265647	-	see also 18234 line
41368	PHTF2	NM_020432.2	1199	ggccctaaatcgggtactagtgtg	265710	-	see also 7872 line
41369	PHTF2	NM_020432.2	2093	tgtgtcatctcgttaaacctttt	265738	-	see also 7872 line
41370	QSCN6	NM_002826.2	1324	caggcagctcggcacaattgtaga	265768	-	see also 18236 line
41371	QSCN6	NM_002826.2	463	aacggctcgggagcagatttcc	265755	-	see also 18236 line
41372	QSCN6	NM_002826.2	954	ggcagatcgtctccaagatctaca	265764	-	see also 18236 line
41373	RNF34	NM_025126.2	687	ttcgttcaggaggagcttatgg	265799	-	see also 8866 line
41374	RNF34	NM_025126.2	220	accggctcattcagatttacacc	265781	-	see also 8866 line

図46 (続き)

1121

41375	SLAMF8	NM_020125.1	463	gcccagcccgctggtacaaagt	265814	-	see also 18238 line
41376	SLAMF8	NM_020125.1	548	gcccacaacatagcgaataaac	265817	-	see also 18238 line
41377	SYTL5	NM_138780.1	1496	atcgattggacgtatatacttc	265863	-	see also 9631 line
41378	SYTL5	NM_138780.1	410	atgtgtccagacagtcatttta	265825	-	see also 9631 line
41379	TLP19	NM_015913.2	595	agccctgacgggggtatattcc	265880	-	see also 6567 line
41380	TLP19	NM_015913.2	703	gtcagtcgcccagcaagttgtta	265882	-	see also 6567 line
41381	TXNDC	NM_030755.3	342	aggactgagtgagcgggtttaca	265888	-	see also 8932 line
41382	TXNDC	NM_030755.3	344	gactgagtgagcgggtttacata	265889	-	see also 8932 line
41383	TXNL2	NM_006541.1	287	cagaaatagccagcagtagatgg	265914	-	see also 4587 line
41384	TXNL2	NM_006541.1	870	ttcggcaaggattaaaagcttac	265936	-	see also 4587 line
41385	ZNF330	NM_014487.2	407	gtcttcagactgtgtcataaagc	265944	-	see also 18243 line
41386	ZNF330	NM_014487.2	916	ctgggtatgactgtattggaag	265952	-	see also 18243 line
41387	ZNF363	NM_015436.1	447	ttccgacagaattgtcaatatg	265968	-	see also 18244 line
41388	ZNF363	NM_015436.1	178	aactagatcgcctttaaagtgaag	265959	-	see also 18244 line
41389	ZNF451	NM_015555.1	1748	atgattcaggggtcattcgttta	266018	-	see also 6463 line
41390	ZNF451	NM_015555.1	2968	ggccgctctagatgaacaactaac	266069	-	see also 6463 line
41391	ZNF507	NM_014910.1	961	aacagtagcggcgtatgtatgc	266098	-	see also 18246 line
41392	ZNF507	NM_014910.1	957	tacgaacagtagcggcgtatgc	266097	-	see also 18246 line
41393	ATP5F1	NM_001688.2	395	ttcactccctatcagctactagg	266155	-	see also 18247 line
41394	ATP5F1	NM_001688.2	576	ttcagaagcggccattacctttt	266157	-	see also 18247 line
							hydrogen- transporting two- sector ATPase
41395	ATP5H	NM_006356.1	51	tgggcgaaaaactgctctaaaaa	266169	-	-
41396	ATP5H	NM_006356.1	52	ggggcaaaaactgctctaaaaac	266170	-	see also 41395 line
41397	ATP5H	NM_006356.1	53	ggcgaaaaactgctctaaaaaac	266171	-	see also 41395 line
41398	ATP5I	NM_007100.1	144	cagcgctacaattactctaaaa	266174	-	see also 18248 line
41399	ATP5I	NM_007100.1	142	gccacgcgctacaattactctaaa	266173	-	see also 18248 line
41400	ATP5I	NM_007100.1	141	agccacgcgctacaattactctaa	266172	-	see also 18248 line
41401	ATP5J	NM_001685.3	747	gtccatttggggagggaacattgg	266177	-	see also 1106 line
41402	ATP5J	NM_001685.3	799	ttgatcctatacagaactctttt	266179	-	see also 1106 line
41403	ATP5J2	NM_004889.1	142	ggcattttggagcgtttcaaaag	266180	-	see also 18249 line
41404	ATP5J2	NM_004889.1	165	aggttactaccgggtactacaaca	266183	-	see also 18249 line
41405	ATP5S	NM_015684.1	1001	atgggtactacacctatcgtttt	266199	-	see also 18250 line
41406	ATP5S	NM_015684.1	1003	gggtactacacctatcgttttgc	266201	-	see also 18250 line
41407	ATP6V0A1	NM_005177.2	389	agctaacattccgattatggaca	266209	-	see also 3641 line
41408	ATP6V0A1	NM_005177.2	1494	gtgttcagtggtcgatcacattat	266230	-	see also 3641 line
41409	TCIRG1	NM_006019.2	1583	tgccacacacacagctgttacc	266264	-	see also 18252 line
41410	TCIRG1	NM_006019.2	1560	gtctggctggagtgatgattcc	266263	-	see also 18252 line
41411	TMEM1	NM_003274.2	3105	tagtacgacctgcaactagtac	266330	-	see also 18253 line
41412	TMEM1	NM_003274.2	2766	tgctaccacgtatgataatttg	266320	-	see also 18253 line
41413	SLC11A2	NM_000617.1	1705	ctgtgggcatacagtgtaagcatc	266383	-	see also 415 line
41414	SLC11A2	NM_000617.1	1710	ggcatcacggtaagcatctctaaa	266384	-	see also 415 line
41415	TTYH1	NM_020659.1	346	ggcattggcatcggttttctagg	266389	-	see also 18255 line
41416	TTYH1	NM_020659.1	1367	tgcaatggcagctgctctatcga	266392	-	see also 18255 line

1122

図46 (続き)

41417	SLC31A2	NM_001860.1	163	ctgcttctggctgtactgtatga	266394	-	see also 18256 line
41418	SLC31A2	NM_001860.1	90	tacagcgggtctgtgttgatt	266393	-	see also 18256 line
41419	SLC30A3	NM_003459.3	1238	ggcttactccggtttgattc	266399	-	see also 18257 line
41420	SLC30A3	NM_003459.3	1147	ggcttactccacttaccatgt	266398	-	see also 18257 line
41421	SLC39A2	NM_014579.1	771	tgcggctagtcttagttacc	266445	-	see also 18259 line
41422	SLC39A2	NM_014579.1	309	gacagaggttcatcatgact	266443	-	see also 18259 line
41423	RHAG	NM_000324.1	626	atgaagagtcgcatactactca	266466	-	see also 18260 line
41424	RHAG	NM_000324.1	989	aactgaggtccatgatacatgt	266475	-	see also 18260 line
41425	RHAG	NM_020407.1	781	atcgagcggccctcaacaatcac	266484	-	see also 18261 line
41426	RHAG	NM_020407.1	674	gggctcgcgtaccattcagacc	266483	-	see also 18261 line
41427	RHAG	NM_016321.1	503	ccctcttcgctgtgaatgattc	266497	-	see also 18262 line
41428	RHAG	NM_016321.1	930	ggcttactgcccctcactcatcg	266504	-	see also 18262 line
41429	RHAG	NM_016321.1	806	tgtttactcctgggtggaatctcc	266502	-	see also 18262 line
41430	SLC22A1	NM_003057.2	1349	cagcctgcctcctcatgattttt	266526	-	see also 18263 line
41431	SLC22A1	NM_003057.2	1376	caactgaccctgacgtggttaac	266530	-	see also 18263 line
41432	SLC22A13	NM_004256.1	332	atgagcagcgagcctgtgtatag	266530	-	see also 18264 line
41433	SLC22A13	NM_004256.1	66	tgcgttcagatacagctattga	266541	-	see also 18264 line
41434	SLC22A14	NM_004803.2	1257	taccgtcagttacacattttta	266563	-	see also 18265 line
41435	SLC22A14	NM_004803.2	672	cccgataggctctctcatcttca	266558	-	see also 18265 line
41436	SLC22A14	NM_004803.2	293	ggcttagtagcctcactcttcttc	266554	-	see also 18265 line
41437	SLC22A2	NM_003058.2	891	taccagtggtctactacacag	266574	-	see also 18266 line
41438	SLC22A2	NM_003058.2	1277	gggcttgcaggtgacattatct	266579	-	see also 18266 line
41439	SLC22A3	NM_021977.2	1154	ggggcaacctctatatacattt	266618	-	see also 8237 line
41440	BA108L7.2	NM_030971.2	1016	ttgaagtggtctactacacaaag	266644	-	see also 18268 line
41441	BA108L7.2	NM_030971.2	1013	ggcttgaagtggtctactacaaac	266643	-	see also 18268 line
41442	K0427	NM_032148.2	1096	tgtagtgtttggcgaccttataa	266663	-	see also 9084 line
41443	K0427	NM_032148.2	1212	ctctaaccctatttggattata	266670	-	see also 9084 line
41444	M236	NM_018713.1	1214	cacggacaaagtcttaacaaac	266700	-	see also 18270 line
41445	M236	NM_018713.1	1234	aactcaggaggagcaaatgttatg	266702	-	see also 18270 line
41446	SFXN1	NM_022754.4	1007	tgcgacgcgtgtacttcaataag	266730	-	see also 18271 line
41447	SFXN1	NM_022754.4	721	toggcgaaacgtgcgaacaagc	266726	-	see also 18271 line
41448	SFXN2	NM_178858.3	721	tgcggtaactgtgtatcatatcc	266738	-	see also 18272 line
41449	SFXN2	NM_178858.3	1060	acggaagctccaagacactatca	266742	-	see also 18272 line
41450	SFXN4	NM_178867.2	541	gtctacatgtcccgaggtcttga	266757	-	see also 18273 line
41451	SFXN4	NM_178867.2	295	atcaagtcggtgattttacctca	266747	-	see also 18273 line
41452	SFXN4	NM_178867.2	648	aacgctagatccagaatagttgc	266760	-	see also 18273 line
41453	SFXN5	NM_144579.1	277	atcgaccctcgcaactctttgt	266765	-	see also 9705 line
41454	SFXN5	NM_144579.1	1127	ggcgaacatggtgtacacaag	266775	-	see also 9705 line
41455	SFXN5	NM_144579.1	474	tcttttggagagccaattgtag	266770	-	see also 9705 line
41456	SLC30A1	NM_021194.1	594	ctccaacgggctggaattggacc	266778	-	see also 8132 line

1123

図46 (続き)

41457	SLC30A1	NM_021194.1	771	ggattcagtgattgtagtagtaa	266784	-	see also 8132 line
41458	SLC30A2	NM_032513.2	735	tcacatgctgcgcgcatttatg	266811	-	see also 18275 line
41459	SLC30A2	NM_032513.2	871	gaccatctccgagagatgtatcc	266812	-	see also 18275 line
41460	SLC30A5	NM_022902.2	268	gagctaccagcgcctcgtatgaac	266813	-	see also 8527 line
41461	SLC30A5	NM_022902.2	334	gtgggacttttgaatcatatga	266822	-	see also 8527 line
41462	SLC30A6	NM_017984.2	1007	gtgtatctactaaccttccaat	266921	-	see also 18277 line
41463	SLC30A6	NM_017984.2	557	ggacatgttcagatcttagctg	266908	-	see also 18277 line
41464	SLC30A8	NM_173851.1	382	cccttaagcgcctgaacattgg	266929	-	see also 18278 line
41465	SLC30A8	NM_173851.1	15	aagaacgtatcttgtaagtata	266927	-	see also 18278 line
41466	SLC41A1	NM_173854.3	1484	tcctgtatggccacttcagtatt	266952	-	see also 18279 line
41467	SLC41A1	NM_173854.3	1557	ctccctggtagctgggtatgatca	266955	-	see also 18279 line
41468	SLC41A1	NM_173854.3	1924	gtcttaacgcctgtgatgaatgg	266959	-	see also 18279 line
41469	MRS2L	NM_020662.1	622	ctcgtacataccctttaccctt	266974	-	see also 18280 line
41470	MRS2L	NM_020662.1	1082	ggcaccgaacacgtgatgatgagg	266987	-	see also 18280 line
41471	SLC39A11	NM_139177.2	169	ggcagctcctggttcgtattct	266994	-	see also 18281 line
41472	SLC39A11	NM_139177.2	649	ggagatcgcactcctcattctgg	266999	-	see also 18281 line
41473	SLC39A12	NM_152725.1	1674	atcctatagggcagatgacagc	267034	-	see also 18282 line
41474	SLC39A12	NM_152725.1	1375	cagcgtgctctttccatagc	267030	-	see also 18282 line
41475	SLC39A13	NM_152264.2	1111	tgcgggcatcgtggtatgtgac	267051	-	see also 18283 line
41476	SLC39A13	NM_152264.2	726	tgcaggcaaacacacatagataac	267047	-	see also 18283 line
41477	SLC39A3	NM_144564.3	293	aggccatcgcctgaaagaagac	267054	-	see also 18284 line
41478	SLC39A3	NM_144564.3	294	ggcccatcgcctgaaagaagac	267055	-	see also 18284 line
41479	SLC39A5	NM_173596.1	711	tgcacccacaggagctactat	267059	-	see also 18286 line
41480	SLC39A5	NM_173596.1	808	ctcctgggacctcgtctactacg	267060	-	see also 18286 line
41481	SLC39A6	NM_012319.2	2066	ggctggcatgaccctgaagcagc	267114	-	see also 18287 line
41482	SLC39A6	NM_012319.2	2356	aacataaatcgtttctgata	267124	-	see also 18287 line
41483	SLC39A7	NM_006979.1	561	cacgacacatggacattcacatga	267127	-	see also 4873 line
41484	SLC39A7	NM_006979.1	1075	atggacacgctcaacagtcataca	267132	-	see also 4873 line
41485	SLC39A8	NM_022154.4	1602	ctgctatgttgggctagctttg	267162	-	see also 18289 line
41486	SLC39A8	NM_022154.4	1560	cactcgacaagccttgcatttca	267160	-	see also 18289 line
41487	SLC39A9	NM_018375.2	748	tggcttagagcgggaatcgaatca	267183	-	see also 18290 line
41488	SLC39A9	NM_018375.2	199	atgttaagctggccgggaatttc	267168	-	see also 18290 line
41489	SLC22A6	NM_004790.3	789	ggcgggaagctactactacttgaac	267189	-	see also 3325 line
41490	SLC22A6	NM_004790.3	620	tgcacagatggctggatctatga	267188	-	see also 3325 line
41491	SLC22A6	NM_004790.3	1396	tggagatcagcatctactaatacc	267198	-	see also 3325 line
41492	SLC22A8	NM_004254.2	1465	aacagctatggcctgaagttaacc	267215	-	see also 18292 line
41493	SLC22A8	NM_004254.2	1631	cccttggccagactatcgaaga	267217	-	see also 18292 line
41494	SLC01A2	NM_005075.2	688	tacgtcttagtaggaattattgt	267229	-	see also 18293 line
41495	SLC01A2	NM_005075.2	1844	cccttgggtgggaattacataca	267263	-	see also 18293 line
41496	SLC01B3	NM_019844.1	1917	tacttgggcttatctatgcttt	267308	-	see also 18294 line
41497	SLC01B3	NM_019844.1	1196	tacggatgcaactggaattttt	267294	-	see also 18294 line
41498	DKFZp761H039	NM_018711.1	1157	ttcttctactacgggttagttct	267332	-	see also 18295 line

1124

図46 (続き)

41499	DKFz761	NM_018711.1	1159	cttactacaggtagttctac	267333	-	see also 18295 line
41500	H039	NM_018711.1	580	ctcaacgctctgggaaatatct	267323	-	see also 18295 line
41501	PLP2	NM_002668.1	225	ctccctgtcgttgattgagatga	267342	-	see also 18296 line
41502	PLP2	NM_002668.1	475	ccggttcggcagccaaagacatc	267347	-	see also 18296 line
41503	PLP2	NM_002668.1	393	aggaaccactccaaaatcgtcg	267346	-	see also 18296 line
41504	SLC22A5	NM_003060.2	1304	ttcgttgatactctactctgc	267367	-	see also 18297 line
41505	SLC22A5	NM_003060.2	1155	atcttgaccggagtgagtaca	267358	-	see also 18297 line
41506	AP1B1	NM_001127.2	1844	ctcctggagccacactgtttaga	267387	-	see also 715 line
41507	AP1B1	NM_001127.2	1855	cacactgttagagagcttatct	267388	-	see also 715 line
41508	AP1B1	NM_001127.2	2578	cacggtggcctggtcatgaaga	267392	-	see also 715 line
41509	AP1G1	NM_001128.4	2698	tgcgaatgcggatcaagcttaca	267406	-	see also 719 line
41510	AP1G2	NM_003917.2	2041	cacactctccgggaaatacagcc	267482	-	see also 18300 line
41511	AP1G2	NM_003917.2	1255	acgggtctcagctgtcaacattc	267474	-	see also 18300 line
41512	AP1M1	NM_032493.2	583	ggcgtctcgaaggcatcaagtat	267492	-	see also 9221 line
41513	AP1M1	NM_032493.2	270	gtccgtttcatgtggatcaaaaca	267489	-	see also 9221 line
41514	AP1M2	NM_005498.3	1099	aacgtctggtttggagtattaa	267524	-	see also 18302 line
41515	AP1M2	NM_005498.3	560	ggcgtctcgaagggtatcaagtat	267513	-	see also 18302 line
41516	AP1S1	NM_001283.2	34	tgcgtttcatgctattattcagc	267533	-	see also 18303 line
41517	AP1S1	NM_001283.2	148	tgcgtcgaagcccaagatgtgc	267534	-	see also 18303 line
41518	AP1S3	NM_178814.2	190	accgggaatgttcagattat	267541	-	see also 18304 line
41519	AP1S3	NM_178814.2	228	cagggaacagcagttttgtgact	267543	-	see also 18304 line
41520	AP2A1	NM_014203.2	262	ctccgacatccgggaactgttaaga	267546	-	see also 5535 line
41521	AP2A1	NM_014203.2	721	gtgcctcttcgactgtacaagg	267552	-	see also 5535 line
41522	AP3B1	NM_003664.3	2055	cccgacccctcagtcgzaatgt	267638	-	see also 2480 line
41523	AP3B1	NM_003664.3	1144	tgcgtttacttgttagcaatagg	267597	-	see also 2480 line
41524	AP3B2	NM_004644.3	418	aacgtggcctgtaagacataga	267685	-	see also 18307 line
41525	AP3B2	NM_004644.3	1401	tactgtctacgggaattccaga	267692	-	see also 18307 line
41526	AP3B2	NM_004644.3	812	agccatagacctgattcacaaa	267688	-	see also 18307 line
41527	AP3D1	NM_003938.4	3383	cagtgacgcctttgctaagtgc	267741	-	see also 2695 line
41528	AP3D1	NM_003938.4	3215	ctccaacgaagcccagttatgt	267740	-	see also 2695 line
41529	AP3M1	NM_012095.2	240	cagtatctaccgggataagctct	267752	-	see also 18309 line
41530	AP3M1	NM_012095.2	434	cactggctacccgaatctaacatt	267762	-	see also 18309 line
41531	AP3M2	NM_006803.2	484	taccgagtcgaacattcttaag	267810	-	see also 4783 line
41532	AP3M2	NM_006803.2	592	ggcggcggactgggggaaatat	267814	-	see also 4783 line
41533	AP3M2	NM_006803.2	461	ggctaccgagtcgaacattcta	267809	-	see also 4783 line
41534	AP3S1	NM_001284.1	617	aacattggtagcatcaagtataa	267843	-	see also 18311 line
41535	AP3S1	NM_001284.1	564	gtgtgtgtatcagcttaagaat	267841	-	see also 18311 line
41536	AP3S2	NM_005829.3	144	agcgggtagacaacatctgaac	267848	-	see also 18312 line
41537	AP3S2	NM_005829.3	223	atgtacaccttactttgtattt	267850	-	see also 18312 line
41538	APBA1	NM_001163.2	1686	aagccgtaagcaggatcaagatg	267866	-	see also 742 line
41539	APBA1	NM_001163.2	1687	agccgtaagcaggatcaagatg	267867	-	see also 742 line
41540	APBA1	NM_001163.2	2573	gtggggcaccggatcattgaat	267879	-	see also 742 line

1125

図46 (続き)

41541	ARCN1	NM_001655.3	618	aaggctgagatgcgtcgtgaaagc	267896	-	see also 18314 line
41542	ARON1	NM_001655.3	1015	gagacgagagattacagaatg	267903	-	see also 18314 line
41543	BCAP29	NM_018844.1	694	ttcgaaagaatgatgcaactcc	267926	-	see also 7600 line
41544	BCAP31	NM_005745.5	326	atcgatgcgctgcgcgaattcg	267931	-	see also 3995 line
41545	BCAP31	NM_005745.5	338	cggaaattcgcgaagtatga	267934	-	see also 3995 line
41546	BET1	NM_005868.2	359	aactatggcacaactgaagatt	267942	-	-
41547	BET1	NM_005868.2	363	atggcacaactgaagatttctc	267943	-	see also 41546 line
41548	BET1	NM_005868.2	383	atccagagggagccaaacaaagc	267944	-	see also 41546 line
41549	C14orf163	NM_016106.2	974	atgatttaactccggttgataaa	267970	-	see also 18317 line
41550	C14orf163	NM_016106.2	253	cactctgactgagatcctattcc	267952	-	see also 18317 line
41551	C20orf161	NM_033421.2	494	gaocagcgcctaactgtgtcaagg	268005	-	see also 18318 line
41552	CHS1	NM_000081.1	6858	ccacgcgcgacctgattaccta	268194	-	see also 51 line
41553	CHS1	NM_000081.1	6570	tagtatcgacaggttacaaaata	268187	-	see also 51 line
41554	COG1	NM_018714.1	2689	ccggagagcagctacgttcaactcc	268402	-	see also 7575 line
41555	COG1	NM_018714.1	2625	cgcttggtgacagcggaactctgt	268399	-	see also 7575 line
41556	COG2	NM_007357.1	755	gaogtctgacgtcgatataaac	268429	-	see also 18321 line
41557	COG2	NM_007357.1	791	gaacttacgccagattgacaaga	268431	-	see also 18321 line
41558	COG3	NM_031431.2	2164	acgtagacogtoatcgaatcgc	268537	-	see also 9018 line
41559	COG3	NM_031431.2	1559	ggcatacccgataagtgatca	268516	-	see also 9018 line
41560	COG4	NM_015386.1	232	ctccacccgaatgggtccctaact	268557	-	see also 6403 line
41561	COG4	NM_015386.1	2052	ttccctgcagttgagagaagatgg	268581	-	see also 6403 line
41562	COG5	NM_006348.2	1521	atctcgactcttgatcctatca	268633	-	see also 18324 line
41563	COG5	NM_006348.2	1173	tggaacaacccgggaattttctaca	268616	-	see also 18324 line
41564	COG6	NM_020751.1	155	gtcgccagcgtgcataagatcc	268680	-	see also 7941 line
41565	COG6	NM_020751.1	1115	gcctctaaaggttcgaattgagc	268720	-	see also 7941 line
41566	COG7	NM_153603.1	582	caogttgagcccgatattgagg	268767	-	see also 18325 line
41567	COG7	NM_153603.1	580	agcacgttgagcgccgatattga	268766	-	see also 18325 line
41568	COG8	NM_032382.2	1659	ctctcaagctacgggtaacctagg	268817	-	see also 18326 line
41569	COG8	NM_032382.2	549	acctgtctcggacacagtatta	268799	-	see also 18326 line
41570	COPB	NM_016451.3	3071	accggccatataagaattcgtgc	268904	-	see also 6862 line
41571	COPB	NM_016451.3	1993	tgcattgcgctatgagcttgg	268872	-	see also 6862 line
41572	COPB	NM_016451.3	307	ggcgctgagaaacgtatgctaca	268818	-	see also 6862 line
41573	COPE	NM_007263.3	92	acgagctgttcgaagttaagaac	268907	-	see also 18328 line
41574	COPE	NM_007263.3	104	acgtaaagaacgccttctacatc	268908	-	see also 18328 line
41575	COPG	NM_016128.3	1273	tcgcaaacacgcgcctcttatga	268943	-	see also 18329 line
41576	COPG	NM_016128.3	698	ctgtaccatgtgcgttaagaatga	268929	-	see also 18329 line
41577	COPG2	NM_012133.1	1775	accgtttgaatgaatcaatt	268984	-	see also 18330 line
41578	COPG2	NM_012133.1	1776	accgtttgacatgaatcaattc	268985	-	see also 18330 line
41579	COPZ1	NM_016057.1	53	ttggaacctccctgtactctgt	268989	-	see also 18331 line
41580	COPZ1	NM_016057.1	192	cccatggactgacagatgaatt	268993	-	see also 18331 line
41581	COPZ2	NM_016429.1	301	gggtatgacctgctctacaaga	269002	-	see also 18332 line
41582	COPZ2	NM_016429.1	269	agccggactgagatgagattgc	269001	-	see also 18332 line
41583	EIF4ENIF1	NM_019843.2	332	ctggcgacagagatgagatcc	269012	-	see also 7733 line
41584	EPIM	NM_001980.2	192	acggcgtgtgaggaagaatgaga	269065	-	see also 18334 line

図46 (続き)

1126

41585	EPIM	NM_001980.2	699	tcgacattatcagattcaca	269082	-	see also 18334 line
41586	EXO70	NM_015219.1	1382	agggctgctgaagccttatct	269109	-	see also 18335 line
41587	EXO70	NM_015219.1	1623	ctgttaaaaggtgactgattaca	269114	-	see also 18335 line
41588	GGA1	NM_013365.2	41	ctctggagccggaatcaataga	269120	-	see also 18336 line
41589	GGA1	NM_013365.2	498	tcacagcccggaagaatgtgatct	269129	-	see also 18336 line
41590	GOSR2	NM_004287.2	456	atgagtcctctatttagatgg	269140	-	see also 18337 line
41591	GOSR2	NM_004287.2	386	ctctgacaccacattaccattgg	269137	-	see also 18337 line
41592	IPO11	NM_016338.3	819	tgtcgtgaagtaactgttaatt	269158	-	see also 6816 line
41593	IPO11	NM_016338.3	1664	ctcatcgtcagtgagattctgt	269184	-	see also 6816 line
41594	IPO11	NM_016338.3	2667	ttgatcgaatggacacattacc	269220	-	see also 6816 line
41595	IPO13	NM_014652.1	2495	ctgccttatctacccttatctc	269255	-	see also 5824 line
41596	IPO13	NM_014652.1	2773	cgtgtgcgtctcttttgagaag	269258	-	see also 5824 line
41597	IPO9	NM_018085.3	2712	ccagacacgtggacaaacattc	269312	-	see also 18340 line
41598	IPO9	NM_018085.3	1272	agccactcagacattacaagaag	269285	-	see also 18340 line
41599	KPNA4	NM_002268.3	1598	tactcgtgactaagtaata	269353	-	see also 1456 line
41600	KPNA4	NM_002268.3	1600	ctcgtgactaagtaataatt	269354	-	see also 1456 line
41601	KPNA5	NM_002269.2	1079	tgcattaaaggcagttggaata	269388	-	see also 18342 line
41602	KPNA5	NM_002269.2	574	ctgcgtgactaagtaata	269369	-	see also 18342 line
41603	KPNA6	NM_012316.3	677	gocgagattacgttgaactgt	269416	-	see also 5272 line
41604	KPNA6	NM_012316.3	669	ctcttttccagatactgt	269414	-	see also 5272 line
41605	MTX1	NM_002455.2	630	tgtgacctatgcagatttact	269434	-	see also 18344 line
41606	MTX1	NM_002455.2	629	gtctgacctatgcagatttacc	269433	-	see also 18344 line
41607	MTX2	NM_006554.1	802	aacacaaacgtattctcaata	269464	-	see also 4592 line
41608	MTX2	NM_006554.1	488	gocagggccattctcttagtga	269456	-	see also 4592 line
41609	NAPA	NM_003827.1	844	caccgagtgaggaagaaatagc	269483	-	see also 2608 line
41610	NAPA	NM_003827.1	780	cccggaatgcaagttgatgaaa	269482	-	see also 2608 line
41611	NAPG	NM_003826.1	588	agggcgcaactctctattcagaaa	269501	-	see also 18346 line
41612	NAPG	NM_003826.1	568	acgagagacagtggttgatgagg	269500	-	see also 18346 line
41613	Nup37	NM_024057.2	198	gtcattggcagctgtacgtttca	269514	-	see also 8580 line
41614	NUP98	NM_005387.3	2806	agcatccgtcttaaaactagtaca	269620	-	see also 3753 line
41615	NUP98	NM_005387.3	2805	gagcatccgtctaaactagtac	269619	-	see also 3753 line
41616	NUP98	NM_005387.3	2803	agggagcatccgtctaaactagt	269618	-	see also 3753 line
41617	NUTF2	NM_005796.1	432	ttgggtttgcacaaatgacatgt	269692	-	see also 18349 line
41618	NXT1	NM_013248.2	582	gccttcgagcagttccaaatca	269694	-	protein transporter -
41619	NXT2	NM_018698.3	518	aggaactcagtcacaaactaca	269706	-	see also 18350 line
41620	NXT2	NM_018698.3	429	agggctgagtcctcaataatt	269703	-	see also 18350 line
41621	PEX13	NM_002618.1	622	tacagcggatgttaggtttaaga	269730	-	see also 1696 line
41622	PEX13	NM_002618.1	354	aaccgctcgtgttagatgatct	269720	-	see also 1696 line
41623	PIGR	NM_002644.2	2179	aagaacgtcagccagtttcaat	269784	-	see also 18352 line
41624	PIGR	NM_002644.2	898	cccgagcccgagctgttttga	269773	-	see also 18352 line
41625	SCAMP1	NM_004866.3	170	gcccagcccgagctcaacaatcc	269792	-	see also 18353 line
41626	SCAMP1	NM_004866.3	169	tgcgagcccgagctcaacaatc	269791	-	see also 18353 line
41627	SCAMP2	NM_005697.3	825	ctgtctacactgagataatcatt	269849	-	see also 18354 line
41628	SCAMP2	NM_005697.3	754	gtcaaataggagctatcatctc	269845	-	see also 18354 line

1127

図 46 (続き)

41629	SCAMP3	NM_005698.2	482	ccacagaacacctaagaactatgg	269851	-	see also 18355 line
41630	SCAMP3	NM_005698.2	929	cggagtgcagttcattcaatt	269853	-	see also 18355 line
41631	SEC10L1	NM_006544.2	2247	ctgtgtgttgcgccagataatt	269892	-	see also 18356 line
41632	SEC10L1	NM_006544.2	601	accagttagaggagggaataacaca	269894	-	see also 18356 line
41633	SEC13L1	NM_030673.2	906	tacgtgtcccttaattgttc	269913	-	see also 18357 line
41634	SEC13L1	NM_030673.2	863	atgtctgtgttcttatttgacc	269911	-	see also 18357 line
41635	SEC15L1	NM_019053.2	538	tagtcaataccgggtttgtcagc	269933	-	see also 7677 line
41636	SEC23A	NM_006364.2	1066	cactgtgtctgtatcatgatgt	270001	-	see also 4461 line
41637	SEC23A	NM_006364.2	1262	atctatctgtgtcattagatca	270010	-	see also 4461 line
41638	SEC23B	NM_006363.3	2210	tcocgatgccagttacatcaac	270097	-	see also 4458 line
41639	SEC23B	NM_006363.3	2211	cccgatgccagttacatcaaca	270098	-	see also 4458 line
41640	SEC24B	NM_006323.1	1968	tgccgatctctgaaacgtatat	270169	-	see also 18361 line
41641	SEC24B	NM_006323.1	1600	gcccagtaaacccggtatatct	270150	-	see also 18361 line
41642	SEC24B	NM_006323.1	726	gcgcgtatctatgtttcata	270121	-	see also 18361 line
41643	SEC24D	NM_014822.1	350	caccgccactaggggaatgttc	270239	-	see also 18362 line
41644	SEC24D	NM_014822.1	2445	gtgctttacacgacacatcagttg	270277	-	see also 18362 line
41645	SEC3	NM_018261.2	315	atccgataaggagattttotaca	270304	-	see also 18363 line
41646	SEC3	NM_018261.2	502	cagcgatatctccggagaataat	270306	-	see also 18363 line
41647	SEC5	NM_018303.4	1782	cagccatccagactgaagact	270414	-	see also 7374 line
41648	SEC5	NM_018303.4	752	agcggtctcagtcattcttcg	270389	-	see also 7374 line
41649	SEC6	NM_007277.3	1786	aacgctgtagacattctgtgt	270466	-	see also 18364 line
41650	SEC6	NM_007277.3	759	gcgcatacttgacoggaaaaagc	270446	-	see also 18364 line
41651	SEC6	NM_007277.3	1100	gcctctgaagtgaggtcttaaac	270451	-	see also 18364 line
41652	SEC63	NM_007214.2	932	gaccacaggataatttctaata	270497	-	see also 5021 line
41653	SEC63	NM_007214.2	251	atccgagcaaatccgattaaag	270473	-	see also 5021 line
41654	SNAG1	NM_052870.1	1804	ctctcagatctctgcattagg	270514	-	see also 18366 line
41655	SNAG1	NM_052870.1	1840	ttctcgaaggttcaaaagagtaac	270517	-	see also 18366 line
41656	SNAG1	NM_052870.1	1640	agcaggttataggagtgatttg	270513	-	see also 18366 line
41657	SNAP23	NM_003825.2	668	accaacagagatcgtattgat	270529	-	see also 18367 line
41658	SNAP23	NM_003825.2	667	caccaacagagatcgtattgata	270528	-	see also 18367 line
41659	SNAP23	NM_004782.2	110	gtcagcttaacctaaagctaca	270535	-	see also 18368 line
41660	SNX1	NM_003099.2	1383	gtctcgggtgactcaatagaaa	270561	-	see also 18369 line
41661	SNX1	NM_003099.2	1084	gaggacaacacggcatgttcacg	270556	-	see also 18369 line
41662	SNX10	NM_013322.2	259	ttcagatctcagattcagaag	270566	-	see also 18370 line
41663	SNX10	NM_013322.2	296	ttctacattgactatgagatat	270569	-	see also 18370 line
41664	SNX11	NM_013323.2	714	tgccattcttcgattgctatgt	270577	-	see also 18371 line
41665	SNX11	NM_013323.2	719	ttctcgatctgactgtcaaac	270578	-	see also 18371 line
41666	SNX12	NM_013346.2	284	ggcgctacagtgactgtggagg	270586	-	see also 18372 line
41667	SNX12	NM_013346.2	166	gagatcgacatctttaactctca	270584	-	see also 18372 line
41668	SNX15	NM_013306.2	658	gctacacccagatcaaaagtaac	270592	-	see also 18373 line
41669	SNX15	NM_013306.2	678	aaccgcgcaggttcattctcaaga	270594	-	see also 18373 line
41670	SNX16	NM_022133.2	986	atccaccgggtccatttgatagc	270616	-	see also 8298 line
41671	SNX19	NM_014758.1	2270	gtcgctatcgaggagttctgaat	270658	-	see also 18375 line
41672	SNX19	NM_014758.1	2411	cccgtaagagcctctctagaatca	270665	-	see also 18375 line

1128

図46 (続き)

41673	SNX19	NM_014758.1	2272	cgctatcggaggtcttgaatct	270660	-	see also 18375 line
41674	SNX2	NM_003100.2	520	tgcttatagcctatagagtaa	270687	-	see also 2081 line
41675	SNX2	NM_003100.2	408	ctccctgatttattgataatcc	270686	-	see also 2081 line
41676	SNX22	NM_024798.1	350	gcccaaggatttactgaatcc	270711	-	protein transporter
41677	SNX24	NM_014035.1	105	agcgggagacacacgggtttaag	270713	-	see also 5466 line
41678	SNX24	NM_014035.1	73	ccagctcttcgctatgaagaga	270712	-	see also 5466 line
41679	SNX24	NM_014035.1	115	caagggttttaagatagaagtc	270715	-	see also 5466 line
41680	SNX26	NM_052948.2	410	caactccacgggtgcatattga	270730	-	see also 18378 line
41681	SNX26	NM_052948.2	374	ctcggaggtacagactttcg	270728	-	see also 18378 line
41682	SNX27	NM_030918.4	455	gacgactgttgggacacatt	270745	-	see also 18379 line
41683	SNX27	NM_030918.4	716	gcccagcgtcggggatgggaaga	270756	-	see also 18379 line
41684	SNX3	NM_003795.3	469	gccgttcaccactacgaatc	270786	-	-
41685	SNX3	NM_003795.3	630	ttgctgagcttctcttttagagg	270791	-	see also 41684 line
41686	SNX3	NM_003795.3	794	aagctatactccactctaaataa	270792	-	see also 41684 line
41687	SNX4	NM_003794.2	498	gaggcgcggattggtttagaaa	270810	-	see also 18380 line
41688	SNX4	NM_003794.2	496	gagagcgcggattggtttaga	270809	-	see also 18380 line
41689	SNX5	NM_014426.2	171	ccctagcttcagattgacatacc	270842	-	see also 5673 line
41690	SNX5	NM_014426.2	169	atccctcgttcagattgacata	270840	-	see also 5673 line
41691	SNX5	NM_014426.2	170	tcctcgttcagattgacatac	270841	-	see also 5673 line
41692	SNX8	NM_013321.1	717	tcggaaactacaaatagcttt	270861	-	see also 18382 line
41693	SNX8	NM_013321.1	782	atcgacaatcggcgagatctot	270864	-	see also 18382 line
41694	STX10	NM_003765.1	324	cccaacagcgcgtagcttttgg	270873	-	see also 18383 line
41695	STX10	NM_003765.1	719	tcctgttcctactactatc	270876	-	see also 18383 line
41696	STX10	NM_003765.1	323	gccaacagcgcgtagcttttgg	270872	-	see also 18383 line
41697	STX11	NM_003764.2	234	ccagcgcgggagcagatgatttg	270878	-	see also 18384 line
41698	STX12	NM_177424.1	766	agcgagctgcttactatcagaaa	270892	-	see also 10162 line
41699	STX12	NM_177424.1	791	atctcgcaagaagatggtatcc	270894	-	see also 10162 line
41700	STX16	NM_003763.2	912	gacttagaggcagatgattaga	270908	-	see also 18386 line
41701	STX16	NM_003763.2	951	gacagaattactataacgttga	270912	-	see also 18386 line
41702	STX18	NM_016930.2	538	cagagagccatccgggttaaaag	270922	-	see also 18387 line
41703	STX18	NM_016930.2	886	gagatattcacggaaaagggttt	270930	-	see also 18387 line
41704	STX1A	NM_004603.1	228	aagaactcatgtccgacataaag	270935	-	see also 18388 line
41705	STX1A	NM_004603.1	113	gaggagattcaggcttctattga	270934	-	see also 18388 line
41706	STX3A	NM_004177.3	635	atccagcgcgagctcgaattac	270946	-	see also 2804 line
41707	STX3A	NM_004177.3	452	gccaacaacgtccggaacaaact	270944	-	see also 2804 line
41708	STX4A	NM_004604.3	360	cgacaattcggcagactattgt	270961	-	see also 18390 line
41709	STX4A	NM_004604.3	348	ttccacaaggtccggaaacttg	270959	-	see also 18390 line
41710	STX5A	NM_003164.2	397	tcggacaacgagtgaaattacc	270975	-	see also 2138 line
41711	STX7	NM_003569.1	749	ctgtcaaggcagcagattatca	270992	-	see also 18392 line
41712	STX7	NM_003569.1	319	cagtgaacagcgtcaaaaggaaa	270988	-	see also 18392 line
41713	STXBP1	NM_003165.1	742	aagctcgtatccctataaagtga	271005	-	see also 18393 line
41714	STXBP1	NM_003165.1	1545	ctcagggtgagctccgattatca	271020	-	see also 18393 line
41715	STXBP3	NM_007269.1	1464	ctctcgggtgagacacctttatca	271074	-	see also 5067 line
41716	STXBP3	NM_007269.1	339	aagtaaatcggagaacaagtata	271044	-	see also 5067 line

1129

図46 (続き)

41717	SYBL1	NM_005638.3	326	aacgttcccgagcccttaatttt	271103	-	see also 3909 line
41718	SYBL1	NM_005638.3	243	aacgtactcacatggcaattatt	271095	-	see also 3909 line
41719	TLOC1	NM_003282.2	731	tgggtaccgggttgattatttt	271121	-	see also 2210 line
41720	TLOC1	NM_003282.2	732	gggtccacgggttgattatttt	271122	-	see also 2210 line
41721	TOM1	NM_005488.1	207	atgcctcccgagcagtaagaag	271138	-	see also 18397 line
41722	TOM1	NM_005488.1	1369	gggggtaccagcgaagaatttg	271151	-	see also 18397 line
41723	TOM1L1	NM_005486.1	1188	cacctcaagccacgcataatata	271193	-	see also 18398 line
41724	TOM1L1	NM_005486.1	872	ttggatatgagaggttttaotaga	271182	-	see also 18398 line
41725	VDP	NM_003715.1	228	cagaagccgagacgagttcaaaaag	271201	-	see also 2538 line
41726	VDP	NM_003715.1	1255	accaagaccggcaattgtatgac	271255	-	see also 2538 line
41727	VPS18	NM_080432.1	469	cccttcgagcgcatcaccagt	271305	-	see also 9514 line
41728	VPS18	NM_080432.1	1536	ttgatctggccaaaagatttg	271315	-	see also 9514 line
41729	VPS18	NM_080432.1	394	tcccacactcggggatgtgaat	271300	-	see also 9514 line
41730	VPS33A	NM_022916.2	1462	aaccacacggacatatcgtatgt	271369	-	see also 18401 line
41731	VPS33A	NM_022916.2	1467	caggacatatcgtatgtatata	271370	-	see also 18401 line
41732	VPS33B	NM_018668.2	646	ggctggccgaactcgcgaataca	271387	-	see also 7540 line
41733	VPS33B	NM_018668.2	1571	aaggattaccgatctctgaaac	271405	-	see also 7540 line
41734	VPS33B	NM_018668.2	1826	gacggagatgatctatgaagt	271411	-	see also 7540 line
41735	VPS39	NM_015289.1	283	aggacgttggttgcaacagattt	271420	-	see also 18402 line
41736	VPS39	NM_015289.1	2728	gagtggtgctcattactcttgt	271472	-	see also 18402 line
41737	VPS45A	NM_007259.2	752	gcatggtccagcactactagg	271501	-	see also 5062 line
41738	VPS45A	NM_007259.2	200	tacctcttgaacgcgatgttc	271478	-	see also 5062 line
41739	VPS45A	NM_007259.2	167	tacacacaaatggagattctaca	271476	-	see also 5062 line
41740	VT11A	NM_145206.1	119	gtcgtccacttcgaaggttaag	271521	-	see also 18404 line
41741	VT11A	NM_145206.1	307	ccaaagtggagggggtgtacagc	271524	-	see also 18404 line
41742	XPO1	NM_003400.2	1533	tgggcaatagctccattatgg	271583	-	see also 2294 line
41743	XPO1	NM_003400.2	2463	aacaagttagggggacacataac	271621	-	see also 2294 line
41744	XPO4	NM_022459.3	413	ctgcgtattgagtgattttca	271670	-	see also 8382 line
41745	XPO4	NM_022459.3	987	aaccgtgtcccacgaagtgtt	271688	-	see also 8382 line
41746	CTNS	NM_004937.1	1163	cagtcacgcgtgccaagtatttt	271791	-	see also 3433 line
41747	CTNS	NM_004937.1	1068	cgcgtggctcttcgattgttca	271790	-	see also 3433 line
41748	XK	NM_021083.2	750	ttgtagctcgtgctctttacc	271803	-	see also 8082 line
41749	XK	NM_021083.2	539	accctacagctgtacataaagt	271798	-	see also 8082 line
41750	PITPNC1	NM_012417.2	381	ctcaocgtagcagagtagcaaaat	271820	-	see also 18409 line
41751	PITPNC1	NM_012417.2	384	accgtagacagtagcaaaaattg	271822	-	see also 18409 line
41752	APOA2	NM_001643.1	295	tggaaaggaaactggttaactct	271853	-	see also 18410 line
41753	APOA2	NM_001643.1	292	ggctggaacgaactggttaact	271851	-	see also 18410 line
41754	APOC1	NM_001645.2	241	aagatgcgggagtggttttcaga	271855	-	-
41755	APOC3	NM_000040.1	133	cagcttcattcaggggtttacaga	271856	-	lipid transporter
41756	APOC4	NM_001646.1	278	ggcttcagcagacctactatga	271860	-	see also 18411 line
41757	APOC4	NM_001646.1	153	ccccacaaagctaaagtagagt	271858	-	see also 18412 line
41758	APOL1	NM_003661.2	254	agcagggtgcaacaaaacgttc	271864	-	see also 18413 line
41759	APOL1	NM_003661.2	814	ccgctttgacgggattaccagc	271873	-	see also 18413 line
41760	APOL3	NM_014349.2	1135	aaccagcattgaccgatttaagg	271888	-	see also 18414 line

Alzheimer disease(アルツハイマー病)

図46 (続き)

1130

41761	APOL3	NM_014349.2	766	agctattgagacgaatatatgc	271882	-	see also 18414 line
41762	APOL6	NM_030641.2	973	ctggcgtatgaccacaaatgctcg	271903	-	see also 18415 line
41763	APOL6	NM_030641.2	481	ctgcagacagatattgacaaac	271895	-	see also 18415 line
41764	APOL6	NM_030641.2	844	aacgtcgtgattttggaact	271899	-	see also 18415 line
41765	APOM	NM_019101.2	99	tgtctactctctatgattatc	271907	-	see also 7707 line
41766	APOM	NM_019101.2	616	ggcgtgagctgtcaataact	271913	-	see also 7707 line
41767	APOM	NM_019101.2	581	tccaagcctcttattgactcc	271912	-	see also 7707 line
41768	FHR-4	NM_006684.1	225	ctcaggacacattttctctat	271915	-	see also 18416 line
41769	FHR-4	NM_006684.1	614	tacgatgatataaactcagttta	271920	-	see also 18416 line
41770	SAA4	NM_006512.1	314	gggtctatcttcagggttaata	271932	-	see also 18417 line
41771	SAA4	NM_006512.1	183	cagagcctattgggacataatga	271922	-	see also 18417 line
41772	SLCO2A1	NM_005630.1	158	ctggcttcggcaacattagg	271938	-	see also 18418 line
41773	SLCO2A1	NM_005630.1	1858	ggcctgtgcctctactatgacaac	271962	-	see also 18418 line
41774	SLCO2A1	NM_003053.1	676	accgggtggggtctgttgc	271967	-	see also 2047 line
41775	SLC18A1	NM_003053.1	550	agcgtacctgagggaatagcatg	271963	-	see also 2047 line
41776	SLC18A1	NM_003053.1	675	taccgggttcgggtctgtttg	271966	-	see also 2047 line
41777	SLC18A2	NM_003054.1	1260	ttcgtcaatgatgcctatcactgg	272000	-	see also 2048 line
41778	CTL1	NM_022109.2	739	ctggctactcgtgttcacttgg	272037	-	see also 8271 line
41779	CTL1	NM_022109.2	1365	tcggcaatgatccttatgtata	272055	-	see also 8271 line
41780	SLC5A7	NM_021815.2	1795	ttgcacactaaatagatatt	272121	-	see also 8176 line
41781	SLC5A7	NM_021815.2	622	gaaccgttcagcaaatctatgg	272087	-	see also 8176 line
41782	SLC35B1	NM_005827.1	856	atcttatgactgtgtgtatt	272139	-	see also 18423 line
41783	SLC35B1	NM_005827.1	903	cactacaactcgaagttctca	272140	-	see also 18423 line
41784	SLC35A5	NM_017945.2	335	ctcaagtcgactctacttagtga	272148	-	see also 18424 line
41785	SLC35A5	NM_017945.2	740	tgcgggactaaactttacagc	272158	-	see also 18424 line
41786	SLC35B4	NM_032826.2	842	aagagactctctacaaagattt	272184	-	see also 9294 line
41787	SLC35B4	NM_032826.2	1114	gtcgtgacccctacgcaatttgt	272192	-	see also 9294 line
41788	NUP107	NM_020401.1	1317	atccatatagacgaatttgaaa	272227	-	see also 18426 line
41789	NUP107	NM_020401.1	305	accccaacagccgaagcttact	272196	-	see also 18426 line
41790	NUP155	NM_004298.2	1826	aacacgcgtctatggtatcacgc	272318	-	see also 18427 line
41791	NUP155	NM_004298.2	1670	tactcgggtcttttaggtatg	272316	-	see also 18427 line
41792	NUP155	NM_004298.2	462	ttggcgacccctgtagacatagt	272277	-	see also 18427 line
41793	UPF3A	NM_023011.2	423	atcgttttgatgatatattctc	272406	-	see also 18428 line
41794	UPF3A	NM_023011.2	341	ggcgacctgagcttttctctca	272400	-	see also 18428 line
41795	UPF3B	NM_023010.2	1006	agcgttctgtagcggaactaaa	272436	-	see also 18429 line
41796	UPF3B	NM_023010.2	522	accaagtcgggactatogattga	272430	-	see also 18429 line
41797	CHAC	NM_015186.1	3180	cgcgaactgaaaagtacctataa	272551	-	see also 6271 line
41798	CHAC	NM_015186.1	1054	atcgccgactgtgtttgacttt	272477	-	see also 6271 line
41799	KIAA1012	NM_014939.1	2749	ggcctgatcagcttttagatcc	272837	-	see also 6121 line
41800	KIAA1012	NM_014939.1	142	ggagcgctcaactcgtctcaatca	272747	-	see also 6121 line
41801	SEDL	NM_014563.2	465	ttcgataaagtgactttgaacaga	272880	-	transcription_regulat
41802	VPS41	NM_014396.2	1068	atcgtgagctcgagagatgtgt	272905	-	intracellular transporter
41803	VPS41	NM_014396.2	487	ttgaacggtctggtgaacaga	272894	-	or see also 5661 line
						-	see also 5661 line

osteoarthritis(変形性関節症)

図46 (続き)

1131

41804	DEFA4	NM_001925.1	241	gtctgctcttcagattagatt	272939	-	see also 18433 line
41805	DEFA4	NM_001925.1	305	gtgtgtgagttcacactatgc	272940	-	see also 18433 line
41806	PLN	NM_002667.2	200	ctcactcgtcagctataagaag	272942	-	see also 18434 line
41807	PLN	NM_002667.2	198	acctcactcgtcagctataaga	272941	-	see also 18434 line
41808	PLN	NM_002667.2	250	agcagctcaaaagctacagaatc	272943	-	see also 18434 line
41809	CLNS1A	NM_001293.1	254	ctggaataccccaccattagttt	272947	-	see also 18435 line
41810	CLNS1A	NM_001293.1	304	ctgtctagagagagattgtatg	272949	-	see also 18435 line
41811	NNAT	NM_005386.2	148	ctcggctgaactgctcatcatcg	272954	-	see also 3751 line
41812	CYGB	NM_134268.3	292	tcctgtgaggtcttttgaac	272960	-	see also 18436 line
41813	CYGB	NM_134268.3	511	aggtgaacccggtacttcaag	272961	-	see also 18436 line
41814	HBB	NM_000518.4	397	cccatcactttggcaagaattc	272966	-	see also 18437 line
41815	HBB	NM_000518.4	396	gccatcactttggcaagaatt	272965	-	see also 18437 line
41816	HBD	NM_000519.2	472	ccctggctcacaagtaaccattga	272967	-	translation
41817	HBE1	NM_005330.3	574	gggtaacgtgatgtgattatc	272970	-	see also 18438 line
41818	HBE1	NM_005330.3	463	ttcttttggagatgctattaaa	272968	-	see also 18438 line
41819	NGB	NM_021257.2	702	gggtgagctctgctctacatgc	272974	-	see also 18441 line
41820	SORT1	NM_002959.3	1309	agcgtctctccgaagataatc	273008	-	see also 1996 line
41821	SORT1	NM_002959.3	1310	gcgtgctctccgaagataatct	273009	-	see also 1996 line
41822	SORT1	NM_002959.3	1682	gcgctctatacaatgtgattaag	273017	-	see also 1996 line
41823	TETRA	NM_001120.2	1407	cagtgctccggctcttttgc	273040	-	see also 18443 line
41824	TETRA	NM_001120.2	353	cagtggaagagaggtacacagt	273038	-	see also 18443 line
41825	SLC29A1	NM_004955.1	787	aagtccttcaggctactttatca	273050	-	see also 3445 line
41826	SLC29A1	NM_004955.1	611	atcaagatgctgctcattatc	273047	-	see also 3445 line
41827	SLC29A2	NM_001532.2	1430	ctgctcttcggttcttaattg	273061	-	see also 18445 line
41828	SLC29A2	NM_001532.2	887	cgctactacgtggccaataatc	273058	-	see also 18445 line
41829	SLC33A1	NM_004733.2	974	atggttggcgttaactatgta	273079	-	see also 3250 line
41830	SLC33A1	NM_004733.2	764	tgttgatgcggctctacgttaag	273066	-	see also 3250 line
41831	AP2B1	NM_001282.1	714	tgccgtagcggcattatctgaaa	273115	-	see also 18447 line
41832	AP2B1	NM_001282.1	715	gcgtagcggcattatctgaaa	273116	-	see also 18447 line
41833	AP2B1	NM_001282.1	2369	acgcgcaaggcgcacatctatg	273130	-	see also 18447 line
41834	AP2M1	NM_004068.2	304	cagtttaagcgggtcccaacattg	273141	-	see also 18448 line
41835	AP2M1	NM_004068.2	305	acgttaagcgggtcccaacattg	273142	-	see also 18448 line
41836	AP2S1	NM_004069.2	124	gtgtacatgcagtttgatg	273160	-	see also 18449 line
41837	AP2S1	NM_004069.2	197	gaagcacaacacacacacttgt	273163	-	see also 18449 line
41838	AP4B1	NM_006594.1	295	atgtatccagcggatgtagg	273168	-	see also 4625 line
41839	AP4B1	NM_006594.1	1738	ggagcagagctctctctattat	273216	-	see also 4625 line
41840	AP4M1	NM_004722.2	1492	cacagcagcgtctatgctatcg	273252	-	see also 18451 line
41841	AP4M1	NM_004722.2	1085	gcggctcaggtttatctaaag	273250	-	see also 18451 line
41842	AP4S1	NM_007077.2	211	gactcgactttcaagactatg	273256	-	see also 18452 line
41843	AP4S1	NM_007077.2	458	agccggagtgagtgattagatt	273268	-	see also 18452 line
41844	AQP3	NM_004925.3	450	ttgccgcaacacacagcttttgt	273273	-	see also 18453 line
41845	AQP3	NM_004925.3	517	ctggacacttgatgatgaat	273278	-	see also 18453 line
41846	C16orf7	NM_004913.1	422	gcgcgaagcttgaggaacacag	273284	-	see also 18454 line
41847	C16orf7	NM_004913.1	191	agggcaccttggccggaaatagg	273283	-	see also 18454 line

1132

図46 (続き)

41848	C20orf121	NM_024331.2	378	tcgagccgcgcgaagttgattac	273288	-	see also 8611 line
41849	C20orf121	NM_024331.2	450	ggcccgaaagtctcaataacttg	273293	-	see also 8611 line
41850	C20orf26	NM_015585.2	1551	aggactagaccgttacacaag	273340	-	see also 18456 line
41851	C20orf26	NM_015585.2	1930	ggacacacgacgacagattgtct	273349	-	see also 18456 line
41852	C20orf59	NM_022082.2	1041	ggcgattccggccagctctatca	273403	-	see also 18457 line
41853	C20orf59	NM_022082.2	1063	agcgggtttctcttgatcatct	273405	-	see also 18457 line
41854	CLCA3	NM_004921.1	352	tacggagatgataccctatacact	273421	-	see also 18458 line
41855	CLCA3	NM_004921.1	56	tgtctctctgcctgtattgaaa	273409	-	see also 18458 line
41856	OPNE7	NM_014427.3	1167	agcagaagagacgcagctataaag	273438	-	see also 18459 line
41857	OPNE7	NM_014427.3	1642	caccgggaaagccctcctaact	273439	-	see also 18459 line
41858	DAZAP2	NM_014764.1	247	accatgtcagccgcattctctgg	273440	-	-
41859	EPB41L4B	NM_018424.1	1412	atccaatagatccgactttatca	273461	-	see also 7461 line
41860	EVER1	NM_007267.5	1819	atgttgctggacacgcttttgg	273499	-	see also 18460 line
41861	EVER1	NM_007267.5	483	ggccctgctcgggaactttgtcc	273496	-	see also 18460 line
41862	FLJ14153	NM_022736.1	657	aacctcgggatcacactatga	273525	-	see also 8442 line
41863	FLJ14153	NM_022736.1	340	ggccgagattttggaatacagtg	273513	-	see also 8442 line
41864	FLJ14153	NM_022736.1	242	aacgagatatcaagtgatatacc	273508	-	see also 8442 line
41865	FLJ25217	NM_152351.2	1023	tcgctctcgaacagatgatgt	273539	-	see also 18462 line
41866	FLJ25217	NM_152351.2	746	tacagacgcgatgcacatgttcc	273537	-	see also 18462 line
41867	FLJ40121	NM_175904.2	1058	tcgcaaaaggtttagtatcatc	273571	-	see also 18463 line
41868	FLJ40121	NM_175904.2	1457	cagctgacaacacccgatttga	273575	-	see also 18463 line
41869	FLJ40121	NM_175904.2	1055	gcctcgcgaaggtttagtatc	273570	-	see also 18463 line
41870	GASP	NM_014710.1	4273	atccgtctcccgagttagaaca	273648	-	see also 18464 line
41871	GASP	NM_014710.1	2038	agcgtattgttgatctctattt	273620	-	see also 18464 line
41872	GOLGA3	NM_005895.2	3370	gtcgttcagttcgataaaggagc	273675	-	see also 4098 line
41873	GOLGA3	NM_005895.2	3366	tgcagtcgttcagttcgataag	273674	-	see also 4098 line
41874	HIATL2	NM_032318.1	449	ttcctcatgaatggctctattca	273690	-	see also 18466 line
41875	HIATL2	NM_032318.1	460	tgtctcattcaaggtgtaagg	273691	-	see also 18466 line
41876	JUB	NM_032876.4	1733	acgcactaccacacaaattatgc	273699	-	see also 9330 line
41877	LCN2	NM_005564.2	497	agcatgctatggtgttctcaag	273714	-	see also 18468 line
41878	LCN2	NM_005564.2	348	ctccgtcctgtttaggaaaaaga	273709	-	see also 18468 line
41879	LG3	NM_139278.1	1051	tgcctcgcggaggttgattgc	273722	-	see also 18469 line
41880	LG3	NM_139278.1	1908	ggaggacgacacagaagttgtacg	273733	-	see also 18469 line
41881	LOC12726	NM_182752.2	521	tccctcaaatcgtcacaacagc	273738	-	see also 18470 line
41882	LOC12726	NM_182752.2	494	caccatttctacggagaattcc	273737	-	see also 18470 line
41883	LOC12726	NM_182752.2	627	gtccctatgccacttccacaga	273741	-	see also 18470 line
41884	LOC13630	NM_174959.1	115	cacgaataccgagactatagt	273747	-	see also 18471 line
41885	LOC13630	NM_174959.1	77	gcgcgtggaaggttaatacaaa	273744	-	see also 18471 line
41886	LOC13630	NM_174959.1	76	ggccgctggaaggttaatacaaa	273743	-	see also 18471 line
41887	LOC13830	NM_178469.2	490	gaccgtggaaggttgcatataaca	273770	-	see also 18472 line
41888	LOC13830	NM_178469.2	628	cacacagctagccttattgttc	273774	-	see also 18472 line
41889	LOC14342	NM_175733.2	1591	atcatcgccgtgtgtaagtagg	273806	-	see also 18473 line
41890	LOC14342	NM_175733.2	370	ctccgcgacccagagatctcagt	273777	-	see also 18473 line
41891	MGC11308	NM_032889.2	634	ttcggggcctgggtatctcatga	273817	-	see also 18474 line

図46 (続き)

1133

41892	MGC11308	NM_032889.2	872	acggcagcgtccttcaagg	273818	-	see also 18474 line
41893	MGC33302	NM_152778.1	807	ctgactcttccatactaga	273856	-	see also 9952 line
41894	MGC33302	NM_152778.1	1130	tggcagcgtctcttctactgg	273864	-	see also 9952 line
41895	MGC34646	NM_173519.1	1167	ccgactacagcagtgaaatga	273893	-	see also 18475 line
41896	MGC34646	NM_173519.1	791	gtcattggaagtccttaactgaag	273883	-	see also 18475 line
41897	MGC34646	NM_173519.1	1210	atgcaatcaagtgaaacatacag	273895	-	see also 18475 line
41898	MGC34821	NM_173586.1	1123	ccggtcagcgtctatgacaataa	273911	-	see also 18476 line
41899	MGC34821	NM_173586.1	1121	cccgggtcagcgtctatgacaat	273909	-	see also 18476 line
41900	MGC52019	NM_178498.2	942	tggatctcagcactacataatttg	273937	-	see also 18477 line
41901	MGC52019	NM_178498.2	1043	atggggtcaatcaatcaactatt	273943	-	see also 18477 line
41902	MGC9564	NM_080669.2	829	ttccgtcaccaccgacatcattgt	273958	-	see also 9520 line
41903	MGC9564	NM_080669.2	250	agcgcgacactcggctacaatgg	273953	-	see also 9520 line
41904	MIP	NM_012084.1	560	acctcttggagtgattattact	273969	-	see also 5103 line
41905	MTAC2D1	NM_152332.2	1059	aggttcaacgctattgaattta	274003	-	see also 18480 line
41906	MTAC2D1	NM_152332.2	565	tccagcagcggactagctatga	273985	-	see also 18480 line
41907	NOD3	NM_178844.1	1292	ccctgtgcagcgtctactctatgg	274018	-	see also 18481 line
41908	NOD3	NM_178844.1	3142	tggagattctgacttaagaagg	274026	-	see also 18481 line
41909	NUP88	NM_002532.3	647	accactaactgataactttt	274054	-	see also 1630 line
41910	NUP88	NM_002532.3	1884	gagcgttagctgacaaatataga	274089	-	see also 1630 line
41911	PACSIN2	NM_007229.1	1228	gccagcagcacccttaattgcc	274100	-	see also 18484 line
41912	PACSIN2	NM_007229.1	1226	aagccagcagcacccttaattgt	274099	-	see also 18484 line
41913	PDZK1	NM_002614.3	201	tcgggtgttgagaagtgtagc	274105	-	see also 1690 line
41914	PDZK1	NM_002614.3	114	accoccgagaatgtaaacctgcc	274103	-	see also 1690 line
41915	PPPIR9B	NM_032595.1	1325	cccgagcaggagatgacatttc	274115	-	see also 18486 line
41916	PPPIR9B	NM_032595.1	1374	cacttactcaacgagagattacg	274117	-	see also 18486 line
41917	SEC22L2	NM_012430.2	958	ggcgaaggtcccgattatgatg	274162	-	see also 5314 line
41918	SEC22L2	NM_012430.2	956	cagggaaggtcccgattatga	274161	-	see also 5314 line
41919	SLC13A5	NM_177550.2	1461	cggcctcaatccgctgtacatca	274174	-	see also 18487 line
41920	SLC13A5	NM_177550.2	1653	ggagacggcctatttgacttgg	274180	-	see also 18487 line
41921	SLC15A3	NM_016582.1	1881	ggcgtcacggctctctctatttg	274188	-	see also 18488 line
41922	SLC15A3	NM_016582.1	1882	ggcgtcacggctctctctatttg	274189	-	see also 18488 line
41923	SLC17A6	NM_020346.1	2119	tacaagactcacatagctataag	274234	-	see also 18489 line
41924	SLC17A6	NM_020346.1	2133	agctataaggaccgagtttgatta	274235	-	see also 18489 line
41925	SLC17A8	NM_139319.1	1062	aacgtggttagtctaagtaatt	274257	-	see also 18490 line
41926	SLC17A8	NM_139319.1	489	aacaatgacacgtatatattga	274240	-	see also 18490 line
41927	SLC22A12	NM_144585.2	2016	caagctggtgccccacgaatgg	274278	-	see also 18491 line
41928	SLC22A15	NM_018420.1	418	atcgctcgtggagtggttttaatt	274282	-	see also 18492 line
41929	SLC22A15	NM_018420.1	866	ctgaatcacctcgttggtttatc	274297	-	see also 18492 line
41930	SLC22A16	NM_033125.2	1143	cacttaccgtttggctaacttgg	274336	-	see also 18493 line
41931	SLC22A16	NM_033125.2	1652	gggaacagcgttagcaactacttg	274349	-	see also 18493 line
41932	SLC22A17	NM_016609.2	266	gtccgcacggctgctgatataga	274353	-	see also 6950 line
41933	SLC22A9	NM_080866.1	749	atccttagcagcgtattatcaga	274362	-	see also 18495 line
41934	SLC22A9	NM_080866.1	1328	ctgtccctttacagagattgcaaa	274369	-	see also 18495 line
41935	SLC23A3	NM_144712.2	1439	gggagccatgccctgaattagc	274384	-	see also 18496 line

1134

図46 (続き)

41936	SLC23A3	NM_144712.2	721	ggcagattcaacgtcatcaact	274377	-	see also 18496 line
41937	SLC37A3	NM_032295.1	1115	taacagcttgaggagcatagt	274418	-	see also 9147 line
41938	SLC37A3	NM_032295.1	893	gacgaatattggagcgaattatc	274407	-	see also 9147 line
41939	SLC5A8	NM_145913.2	1599	agacactcaagctatttgatagg	274466	-	see also 9804 line
41940	SLC5A8	NM_145913.2	705	caactacaggtatttagaacttc	274439	-	see also 9804 line
41941	SLCO1C1	NM_017435.2	2134	ttgggtatctacacattagcaat	274534	-	see also 18499 line
41942	SLCO1C1	NM_017435.2	1051	gtgcagacaggttgcaattatagg	274499	-	see also 18499 line
41943	SLCO2B1	NM_007256.1	2176	ctgtctgtctactacaataat	274560	-	see also 18500 line
41944	SLCO2B1	NM_007256.1	600	gtcacccgcccccgaatgattgg	274548	-	see also 18500 line
41945	SLCO3A1	NM_013272.2	818	aaggactctctctctatatagg	274572	-	see also 5383 line
41946	SLCO3A1	NM_013272.2	699	acgggacggctaccacatgatg	274567	-	see also 5383 line
41947	SLCO4A1	NM_016354.3	2188	ggccatgagccgctacatactca	274615	-	see also 18502 line
41948	SLCO4A1	NM_016354.3	1765	ctcggacggctcatgtaactct	274604	-	see also 18502 line
41949	SLCO4A1	NM_016354.3	2054	atccagtgaggttagtagaat	274611	-	see also 18502 line
41950	SLCO4C1	NM_180991.4	629	ggccgtcacaggaattatag	274624	-	see also 18503 line
41951	SLCO4C1	NM_180991.4	627	ttggccgtcacaggaattatgt	274623	-	see also 18503 line
41952	SLCO5A1	NM_030958.1	2804	aacgtgaactgttctgtttgt	274751	-	see also 8975 line
41953	SLCO5A1	NM_030958.1	2632	aacactcaggtccgtagaagatg	274747	-	see also 8975 line
41954	SLCO5A1	NM_030958.1	2541	aacggacgtcgaactactcttc	274739	-	see also 8975 line
41955	SLCO6A1	NM_173488.2	1110	gtcttgcagtggtgacattaat	274790	-	see also 18505 line
41956	SLCO6A1	NM_173488.2	2102	cacaggacgttggtgatatata	274823	-	see also 18505 line
41957	SMBP	NM_020123.2	1456	tacaactctggccgaactctgt	274859	-	see also 7758 line
41958	SPINL	NM_032038.1	806	ggctgggagggccagttatcc	274887	-	see also 18507 line
41959	SPINL	NM_032038.1	1461	tagcatctggccacttatatt	274889	-	see also 18507 line
41960	SV2A	NM_014849.1	1903	agcgcctagagcaatgtaactttt	274907	-	see also 18508 line
41961	SV2A	NM_014849.1	2140	ggcgtctgataaacagttacatc	274915	-	see also 18508 line
41962	SV2B	NM_014848.1	801	gggggtgctctcccgattgtttt	274928	-	see also 18509 line
41963	SV2B	NM_014848.1	802	gggggtgctctcccgattgtttt	274929	-	see also 18509 line
41964	SV2B	NM_014848.1	803	gggtctctaccgattgttttg	274930	-	see also 18509 line
41965	SYPL	NM_006754.2	399	tcctataggcgactactctct	274958	-	see also 18510 line
41966	SYPL	NM_006754.2	398	gtcctataggcgactactcttc	274957	-	see also 18510 line
41967	SYPL	NM_006754.2	506	ctgtatctgtagtagctgaact	274961	-	see also 18510 line
41968	SYT11	NM_152280.2	557	ggcctgctaagccgagacaaaga	274981	-	see also 9827 line
41969	SYT12	NM_177963.2	217	ctctcgttcccaattacgaact	275001	-	see also 10173 line
41970	SYT12	NM_177963.2	214	ccctctcgttcccaattacg	275000	-	see also 10173 line
41971	SYT13	NM_020826.1	909	ggagctggagaggttactactoc	275012	-	see also 7984 line
41972	SYT13	NM_020826.1	1087	acgagctaagcacacatcaacc	275015	-	see also 7984 line
41973	SYT14	NM_153262.1	1057	atggtgtacatcgcagtaaaaaa	275045	-	see also 9980 line
41974	SYT14	NM_153262.1	296	agcgtctggtaaatatcatgagg	275029	-	see also 9980 line
41975	SYT14	NM_153262.1	410	atcggcagagtagtaggtataga	275031	-	see also 9980 line
41976	SYT14L	NM_031914.1	379	ggcagtgatgcccaagttacc	275078	-	see also 18515 line
41977	SYT14L	NM_031914.1	748	ggcagcaacggcgtttatttga	275087	-	see also 18515 line
41978	SYT2	NM_177402.3	722	tcctctctctgacagaagaag	275111	-	see also 18516 line
41979	SYT2	NM_177402.3	780	ccctgccttcaatgaaccttca	275112	-	see also 18516 line

図46 (続き)

1135

41980	SYT3	NM_032298.1	2110	cagctgaaccccaactataatg	275121	-	see also 9149 line
41981	SYT4	NM_020783.2	1241	ggggttcgcaaatgaggttaatcg	275148	-	see also 7967 line
41982	SYT4	NM_020783.2	1027	aagctcgaatctgcctaaatct	275141	-	see also 7967 line
41983	SYT7	NM_004200.2	1007	atgagctcctcgccctcgatc	275157	-	see also 2811 line
41984	SYTL4	NM_080737.1	1504	agcgcctaaaccatattgtgaag	275182	-	see also 9521 line
41985	SYTL4	NM_080737.1	1375	ctgggatttcgggaacatctt	275181	-	see also 9521 line
41986	TCOF1	NM_000356.1	3602	caggcatgttcgccctaaaca	275209	-	see also 18521 line
41987	TCOF1	NM_000356.1	2974	aaggagtcagtcggatatacaga	275205	-	see also 18521 line
41988	TM9SF1	NM_006405.3	810	ctggctcggtaacacttagaga	275225	-	see also 4487 line
41989	TM9SF1	NM_006405.3	1487	gggtcgggaagcagctacacttgt	275237	-	see also 4487 line
41990	TM9SF2	NM_004800.1	454	ttcacatataagtttaagtta	275253	-	see also 3332 line
41991	TM9SF2	NM_004800.1	1665	ttcctgaacagctgtctacacg	275304	-	see also 3332 line
41992	TM9SF4	NM_014742.1	1481	ggcgcgttgtaccgcactttaa	275338	-	see also 5939 line
41993	TM9SF4	NM_014742.1	367	gcctggggtcggcctcaact	275325	-	see also 5939 line
41994	CNOT2	NM_014515.1	1128	tacctgattgtcgggttaact	275394	-	see also 5729 line
41995	CNOT2	NM_014515.1	1333	acctgtggaactcaagacatag	275405	-	see also 5729 line
41996	GTF2B	NM_001514.2	581	tgcgtatcacgaatttctaaga	275440	-	see also 1042 line
41997	GTF2B	NM_001514.2	370	atcgggaatgatgaatgcattc	275430	-	see also 1042 line
41998	GTF2E1	NM_005513.1	334	atcaattatgtacttctgttaa	275465	-	see also 18527 line
41999	GTF2E1	NM_005513.1	309	aaccactgccataactact	275459	-	see also 18527 line
42000	GTF2E2	NM_002095.3	1047	agcgaagctttaagactcatac	275510	-	see also 1358 line
42001	GTF2E2	NM_002095.3	819	ttgtaatcgtcccgataagaag	275507	-	see also 1358 line
42002	TAF1C	NM_005679.2	630	agcggggagcgcactaagaaga	275519	-	see also 18529 line
42003	TAF1C	NM_005679.2	1176	tgcgtgtgtgaagtgtgtataac	275526	-	see also 18529 line
42004	BLZF1	NM_003666.2	970	aagcttagcccgtagaaaaat	275549	-	see also 2491 line
42005	BLZF1	NM_003666.2	971	acgtctagcccgtagaaaaatc	275550	-	see also 2491 line
42006	CEP1	NM_007018.3	6780	cccaactcgcacactgtatgtcc	275727	-	see also 4897 line
42007	EAP30	NM_007241.2	645	gtgagataaagcccgctttaa	275744	-	see also 18532 line
42008	EAP30	NM_007241.2	150	accagctagcccgatgtcaag	275733	-	see also 18532 line
42009	ELL2	NM_012081.3	809	atcaaacccggtagcccatatgt	275758	-	see also 18533 line
42010	ELL2	NM_012081.3	535	aggactccacggcctgtcaaaa	275748	-	see also 18533 line
42011	ELL2	NM_012081.3	730	aacaaacgactgtatcagatga	275754	-	see also 18533 line
42012	LITAF	NM_004862.1	855	gggaatacgtcgcaaaactaac	275791	-	see also 18534 line
42013	LITAF	NM_004862.1	854	gggggaatacgtcgcaaaactaa	275790	-	see also 18534 line
42014	LITAF	NM_004862.1	435	atcccaatacaatccaattac	275785	-	see also 18534 line
42015	SUPT3H	NM_003599.1	286	tgcggggagcaaggaataact	275800	-	see also 18535 line
42016	SUPT3H	NM_003599.1	712	atgttgcgaatggaatactta	275812	-	see also 18535 line
42017	SURB7	NM_004264.2	288	ggctgctagcttgtataagctag	275821	-	see also 18536 line
42018	SURB7	NM_004264.2	294	tagcttgtataagctagagaag	275822	-	see also 18536 line
42019	EPC1	NM_025209.2	1264	atccgaccgaacggaataatga	275856	-	see also 8877 line
42020	EPC1	NM_025209.2	976	aagctgcacgagatcttaagtcg	275846	-	see also 8877 line
42021	BTF	NM_014739.1	423	atcgtcgcgagatcagaaataat	275913	-	see also 5928 line
42022	BTF	NM_014739.1	2142	agcgggttaacttgatcagaaa	275970	-	see also 5928 line
42023	EED	NM_003797.2	1089	aagatcatgctttaagattatgg	276010	-	see also 2593 line

図46 (続き)

1136

42024	INAB1	NM_005966.2	765	ttcggaaatacagtgcaatat	276039	-	see also 18538 line
42025	NAB1	NM_005966.2	933	ctcgagaagtcacattataat	276043	-	see also 18538 line
42026	REST	NM_005612.3	1005	cgctggcctacaataactatcg	276075	-	see also 3900 line
42027	REST	NM_005612.3	1008	tgccgtacaataactaatcgata	276076	-	see also 3900 line
42028	REST	NM_005612.3	1078	atgagcgagctctacaagtgtatc	276083	-	see also 3900 line
42029	ELL	NM_006532.1	1521	gtcggagaagccctgactacttgc	276141	-	see also 18540 line
42030	ELL	NM_006532.1	1719	tactcgaaggcagatttgcagg	276144	-	see also 18540 line
42031	GTF3C3	NM_012086.1	584	aacgtgaagagcgcatatgatg	276155	-	see also 18541 line
42032	GTF3C3	NM_012086.1	2647	cagttagactcagaagagatat	276241	-	see also 18541 line
42033	GTF3C5	NM_012087.1	1179	ggcgcagctctgattcgattt	276256	-	see also 18542 line
42034	GTF3C5	NM_012087.1	1200	ttgggtatgcccccgaaanaac	276259	-	see also 18542 line
42035	A1BG	NM_130786.2	938	cgccggctcagctgattctgagc	276277	-	see also 18544 line
42036	A1BG	NM_130786.2	891	ccgctaccggctcgcatacaacc	276275	-	see also 18544 line
42037	A2LP	NM_007245.2	687	ccctcctcggaggagcattgtgg	276290	-	see also 18545 line
42038	A2LP	NM_007245.2	509	ttgaaggcgtctacaacaattcc	276280	-	see also 18545 line
42039	AAAS	NM_015665.3	642	gactcagctccgtgtgtataatgc	276331	-	see also 6536 line
42040	AAAS	NM_015665.3	162	cggggtcaagtoaccctatatga	276320	-	see also 6536 line
42041	ACRBP	NM_032489.2	160	ctctctctaccggaatacgaacg	276341	-	see also 18547 line
42042	ACRBP	NM_032489.2	265	ctgtccagctggaccataatga	276342	-	see also 18547 line
42043	AGTL6	NM_016188.3	1183	accgagcatcgactgaaactca	276368	-	see also 6714 line
42044	AF1Q	NM_006818.2	435	aaggcctgggtctgtcagataca	276373	-	see also 18549 line
42045	AF1Q	NM_006818.2	371	agcagctcagctctctctttt	276372	-	see also 18549 line
42046	AMMECR1	NM_015365.1	1006	tacaagctcagactaatga	276386	-	see also 6397 line
42047	AMMECR1	NM_015365.1	1048	ctgaacagctatcgtagtgaata	276390	-	see also 6397 line
42048	ANGPT4	NM_015985.2	1503	accacgtcccgacacaaagtac	276401	-	see also 18551 line
42049	ANGPT4	NM_015985.2	1094	ctctccagcgcgtgagaaagg	276398	-	see also 18551 line
42050	ANK3	NM_001149.2	2374	ttcgaatccttagctttacgttaa	276454	-	see also 18552 line
42051	ANK3	NM_001149.2	1425	tgcagtgatttccggattaagc	276432	-	see also 18552 line
42052	ANKRD2	NM_020349.2	1073	ggaggctcaaccgctacaaaatca	276775	-	see also 18553 line
42053	ANKRD2	NM_020349.2	926	caccaatgtgaggataagctgc	276774	-	see also 18553 line
42054	ANUBL1	NM_174890.1	515	tgcgtggcgaccctataatact	276791	-	see also 18554 line
42055	ANUBL1	NM_174890.1	1002	accatctcgcaccgattgttaa	276803	-	see also 18554 line
42056	AP2A2	NM_012305.1	2891	ggctcacgtcgcgcacaaagttaag	276868	-	see also 18555 line
42057	AP2A2	NM_012305.1	2787	tactaatctcgaaattctgtgg	276866	-	see also 18555 line
42058	AP2A2	NM_144772.1	780	taccggtcgtaccattactctgg	276884	-	see also 18556 line
42059	AP2A2	NM_144772.1	430	ggctcagcgcccaaccatctatta	276878	-	see also 18556 line
42060	AP2A2	NM_024492.2	480	tccaagctagagatttattca	276885	-	-
42061	ARFIP1	NM_014447.1	197	gactctgtgaacatagattttaa	276888	-	-
42062	ARFIP1	NM_014447.1	834	atgagatcgcacactgatttg	276909	-	see also 18557 line
42063	ARPP-21	NM_016300.3	505	agggcggtggaggctcagataca	276918	-	see also 6792 line
42064	ARPP-21	NM_016300.3	451	aacggcattgttaatacagaag	276917	-	see also 6792 line
42065	ARS2	NM_015908.3	1635	ttcagcagcagtgtaacattaa	276982	-	see also 6566 line
42066	ARS2	NM_015908.3	378	caccgtagctcgggtgaaatag	276971	-	see also 6566 line
42067	ASB1	NM_016114.3	128	ctccgcaggtcgtaatctgaagg	277003	-	see also 18560 line

図46 (続き)

1137

42068	ASB1	NM_016114.3	1064	cccataaagaagttttactcc	277012	-	see also 18560 line
42069	ASPSR1	NM_024083.2	400	ctcggaggttcaggactcttct	277016	-	see also 18561 line
42070	ASPSR1	NM_024083.2	1370	gagaaaccccgagctgtcatttta	277022	-	see also 18561 line
42071	AUTS2	NM_015570.1	2149	aagacatcaaacctatogattgt	277042	-	see also 18562 line
42072	AUTS2	NM_015570.1	3552	tcttaacgagaaacttgacattc	277055	-	see also 18562 line
42073	B1	NM_014451.2	1928	tccgaggttatcaatgttaaat	277102	-	see also 18563 line
42074	B1	NM_014451.2	1599	aacttaactctagaaactaaa	277086	-	see also 18563 line
42075	B1	NM_014451.2	1763	ttctcaagcagccagtttgagg	277095	-	see also 18563 line
42076	B7	NM_006992.1	630	tggaccccgaggaagttgacagc	277146	-	see also 18564 line
42077	B7	NM_006992.1	309	ggctggctcagcttatgtcaag	277140	-	see also 18564 line
42078	B7H3	NM_025240.1	586	ggcaacgagcagggcttattga	277147	-	see also 18565 line
42079	BAL	NM_031458.1	2545	caggacatccgttaaatattgt	277204	-	see also 9034 line
42080	BAL	NM_031458.1	1814	aggccacgcatggatcccaaga	277190	-	see also 9034 line
42081	BBS2	NM_031885.2	651	gtctgactgcagggcgtattgaac	277214	-	see also 18567 line
42082	BBS2	NM_031885.2	2506	cactgtgttcgggatgcaattc	277282	-	see also 18567 line
42083	BC-2	NM_014453.2	244	gacggcgagcgacagaaactaga	277287	-	see also 18568 line
42084	BC-2	NM_014453.2	364	cggcgctatgtgcgaagtttgt	277290	-	see also 18568 line
42085	BCLP	NM_033504.2	247	tacgtggacacccctcaagatgc	277297	-	see also 18569 line
42086	BCLP	NM_033504.2	557	acccacacgcatattatagctcc	277299	-	see also 18569 line
42087	BENE	NM_005434.3	592	agcgtgcgcgtctcaagtaga	277303	-	see also 18570 line
42088	BENE	NM_005434.3	414	agccgcacccacataatgatacc	277301	-	see also 18570 line
42089	BICD1	NM_001714.1	378	atcgaaggagggtctactatctgg	277309	-	see also 1141 line
42090	BICD1	NM_001714.1	2054	agctagcccccatgattgataaa	277337	-	see also 1141 line
42091	BK65A6.2	NM_019601.2	2441	ggcggttcgctcgtctatgtgc	277365	-	see also 18572 line
42092	BK65A6.2	NM_019601.2	790	ttcggatcatcgacagcaaaaat	277366	-	see also 18572 line
42093	BK65A6.2	NM_019601.2	2231	ccacactcccaacaggacaaaagg	277363	-	see also 18572 line
42094	BM-002	NM_016617.1	78	cccaaggctgcgtacaaagtac	277368	-	see also 18573 line
42095	BM-002	NM_016617.1	42	gtcgaaggtttccttaagatca	277366	-	see also 18573 line
42096	BRD3	NM_007371.2	322	gcccgtgagcgaatcaaatiga	277378	-	see also 18575 line
42097	BRD3	NM_007371.2	506	gtgctaattggcccaagctttaga	277385	-	see also 18575 line
42098	BRMS1	NM_015399.2	511	caggataagtagtaaatgtgagc	277396	-	see also 18576 line
42099	BRMS1	NM_015399.2	791	ggagactggacagccatcaaaaa	277399	-	see also 18576 line
42100	BRP44L	NM_016098.1	369	tggcacgcaacaatgaagtagc	277405	-	see also 18577 line
42101	BRP44L	NM_016098.1	273	atcagtggcggatgaacattgc	277401	-	see also 18577 line
42102	BTN2A1	NM_007049.2	953	tgcagtgccctgcctcatcttg	277408	-	see also 18578 line
42103	BTN2A1	NM_007049.2	665	ttcaatgaggggccaatgaagacg	277407	-	see also 18578 line
42104	C11orf1	NM_022761.1	191	caccataatgagaatacctatt	277416	-	see also 8456 line
42105	C11orf1	NM_022761.1	290	ttcccaagttggacactacttg	277419	-	see also 8456 line
42106	C11orf2	NM_013265.2	925	tccggctcccgactgttagagt	277425	-	see also 18580 line
42107	C11orf2	NM_013265.2	928	ggctcccgactgttagagtca	277426	-	see also 18580 line
42108	C11orf2	NM_013265.2	405	tccggaagatgaagaacgatttc	277424	-	see also 18580 line
42109	C11ORF4	NM_020155.2	1256	ctctggctctacttttggacc	277434	-	see also 18581 line
42110	C11ORF4	NM_020155.2	1253	tgcctctggctctacttttg	277432	-	see also 18581 line
42111	C14orf1	NM_007176.1	436	ctggctcgggctccgggtatctaga	277446	-	see also 4982 line

図46 (続き)

1138

42112	C14orf1	NM_007176.1	439	gtcgggctccggtatctaraagt	277447	-	see also 4982 line
42113	C14orf12	NM_016049.3	576	tccgctgggtcccttaaggataag	277455	-	see also 6641 line
42114	C14orf12	NM_016049.3	575	ctcgcgtgggtcccttaaggataa	277454	-	see also 6641 line
42115	C14orf123	NM_014169.2	1111	ttgcctagtgtacctctactca	277466	-	see also 18583 line
42116	C14orf123	NM_014169.2	1059	ggcccaaggaggtgtaaatgttg	277465	-	see also 18583 line
42117	C15orf2	NM_018958.1	3253	ggcgcctaaattctgtttaga	277504	-	see also 18584 line
42118	C15orf2	NM_018958.1	2531	aggaggagtaactcgaatttat	277495	-	see also 18584 line
42119	C16orf35	NM_012075.1	1395	ggcgggtctcttgcagaattta	277528	-	see also 18585 line
42120	C16orf35	NM_012075.1	686	cagaccgctcagtgataaactgt	277517	-	see also 18585 line
42121	C17orf1A	NM_031456.2	911	tccgggtatattccgaataaat	277550	-	see also 18587 line
42122	C17orf1A	NM_031456.2	1263	gtcagcgacgggttcattcaga	277558	-	see also 18587 line
42123	C18orf1	NM_004338.1	692	accacaaccgaacataattgaca	277606	-	see also 18588 line
42124	C18orf1	NM_004338.1	341	ctccacgcggtcttctcaacc	277604	-	see also 18588 line
42125	C18orf2	NM_031416.1	110	cagaccacactgtcaacagaagc	277610	-	see also 18589 line
42126	C18orf2	NM_031416.1	178	agctaaccttaaccactaatgacg	277614	-	see also 18589 line
42127	C1orf2	NM_006589.2	1678	tccgtggactacgttctcttcg	277630	-	see also 18590 line
42128	C1orf2	NM_006589.2	1677	ctcgtggactacgttctcttc	277629	-	see also 18590 line
42129	C1orf24	NM_022083.1	2803	atcaaggtagcccgatttcata	277666	-	see also 18591 line
42130	C1orf24	NM_022083.1	2678	aagagggtctgaccccttagttct	277665	-	see also 18591 line
42131	C20orf10	NM_014477.2	191	accgtctgagaaacggtgttaaaa	277685	-	see also 18592 line
42132	C20orf10	NM_014477.2	564	gacatcgagggatgatgcttga	277693	-	see also 18592 line
42133	C21orf33	NM_004649.4	764	aagctcacgtggaccagaaaaac	277709	-	molecular_function unknown
42134	C21orf33	NM_004649.4	380	aaggcagagcagcaggaattttg	277702	-	see also 42133 line
42135	C21orf33	NM_004649.4	414	gaggatcgccctgtggcaaaatca	277704	-	see also 42133 line
42136	C21orf45	NM_018944.1	479	cagatgcacgcgcccaagaacttg	277714	-	see also 18593 line
42137	C21orf45	NM_018944.1	463	atcttgctacgtgtacagatgc	277713	-	see also 18593 line
42138	C21orf5	NM_005128.1	4837	aggtctaacgccattagtcatt	277789	-	see also 18594 line
42139	C21orf5	NM_005128.1	980	tggttactaggtcagacataaa	277729	-	see also 18594 line
42140	C21orf51	NM_058182.2	228	ctggggtgaaatgtatcaaaa	277833	-	molecular_function unknown
42141	C21orf62	NM_019596.1	341	tgcggacatccgggattgtgact	277835	-	see also 18595 line
42142	C21orf62	NM_019596.1	737	ctcagcccttaaatcatatagtat	277847	-	see also 18595 line
42143	C21orf62	NM_019596.1	349	tccgggattgtactacagtgtg	277836	-	see also 18595 line
42144	C22orf23	NM_032561.2	839	cagaaactccgggaatggaaga	277855	-	see also 18596 line
42145	C22orf23	NM_032561.2	715	cctgagctagacagattggaag	277854	-	see also 18596 line
42146	C2F	NM_006331.3	474	tggcctcatgttcaacttttac	277864	-	see also 18597 line
42147	C2F	NM_006331.3	233	cagtaaggttaggaagacatat	277858	-	see also 18597 line
42148	C40	NM_017546.3	1169	aacctttagtcctatagaat	277892	-	see also 7025 line
42149	C40	NM_017546.3	971	cagcgatccaggtgggataaatc	277885	-	see also 7025 line
42150	C6.1A	NM_024332.1	234	atcatcttcagcaggtcttgataa	277910	-	molecular_function unknown
42151	C6.1A	NM_024332.1	773	ctcagtaaccaggtccatcattg	277911	-	see also 42150 line
42152	C6orf11	NM_005452.4	872	cagagtaaccaggtctgagttcc	277930	-	see also 18599 line

図46 (続き)

1139

42153	C6orf1	NM_005452.4	861	cgcgcgtgtgaccgagtaacacg	277929	-	see also 18599 line
42154	C6orf15	NM_014070.1	708	gggaatctggggtatcaataatc	277945	-	see also 18600 line
42155	C6orf15	NM_014070.1	527	gacgactccocggtcttaataa	277943	-	see also 18600 line
42156	C6orf4	NM_147200.1	782	aaccatagacacgggagatgatt	277959	-	see also 9816 line
42157	C6orf4	NM_147200.1	1557	agggataagaccggtgagataat	277976	-	see also 9816 line
42158	C6orf53	NM_016482.2	368	tgggtttctactagctacatctgg	277987	-	see also 18601 line
42159	C6orf54	NM_014354.1	1017	cgcgcgttaccgctcatgatag	277989	-	see also 18602 line
42160	C6orf67	NM_018247.1	371	tccggagatcgagattgattat	277994	-	see also 7344 line
42161	C6orf67	NM_018247.1	373	cgcgagatcgagattgattat	277996	-	see also 7344 line
42162	C7orf30	NM_138446.1	419	aactctaacccgacactacatg	278047	-	see also 18604 line
42163	C7orf30	NM_138446.1	276	tccgacgcggcagatcactcgg	278045	-	see also 18604 line
42164	C8orf1	NM_004337.1	934	tacataactccgtatcaagact	278086	-	see also 2901 line
42165	C8orf1	NM_004337.1	1780	ctgggtgttacacgcgtgttagc	278118	-	see also 2901 line
42166	C8orf2	NM_007175.4	389	cocgaacgcagtgatgatag	278132	-	see also 18606 line
42167	C8orf2	NM_007175.4	388	tcccgaacgcagtgatgatata	278131	-	see also 18606 line
42168	C9orf27	NM_021208.1	347	atgtaatgaactgtactatt	278148	-	see also 18608 line
42169	C9orf27	NM_021208.1	214	ctgtactctcgaagaagatga	278146	-	see also 18608 line
42170	C9orf5	NM_032012.1	1607	tgcggtctaacacgtgtatcagt	278170	-	see also 18609 line
42171	C9orf5	NM_032012.1	2498	agcaatcatcggtctactcttc	278204	-	see also 18609 line
42172	CDCA1	NM_031423.2	548	agcatgcgcgtgaacggtatagg	278227	-	see also 9017 line
42173	CDCA1	NM_031423.2	440	gcctactgcgcggtgaatgaact	278220	-	see also 9017 line
42174	CDCA3	NM_031299.3	468	tgcctctgggtaccggttatct	278261	-	see also 18611 line
42175	CDCA3	NM_031299.3	315	tgcacggagcacctatgaagacc	278257	-	see also 18611 line
42176	CDKAL1	NM_017774.1	979	atgacaaatcgcgcctatattt	278297	-	see also 18612 line
42177	CDKAL1	NM_017774.1	821	tagatagagccaaacaactcttt	278290	-	see also 18612 line
42178	CENPH	NM_022909.3	673	aagatcatacagacaaacactaca	278317	-	see also 18613 line
42179	CENPH	NM_022909.3	481	cacctattagagctaaataatt	278315	-	see also 18613 line
42180	CENPH	NM_022909.3	479	aacacctattagagctaaataaa	278314	-	see also 18613 line
42181	CENPJ	NM_018451.2	4167	atccggtcggataagagtttaagg	278396	-	see also 18614 line
42182	CENPJ	NM_018451.2	3423	tgcgaacacatctgttcgatttc	278379	-	see also 18614 line
42183	CER1	NM_005454.1	562	gggaaatcgcggtctgttcattt	278405	-	see also 18615 line
42184	CER1	NM_005454.1	340	cagccgatagatgaatgaaat	278399	-	see also 18615 line
42185	CFDP1	NM_006324.1	164	gtgcgcgtcggtgagaggtatag	278407	-	see also 18616 line
42186	CFDP1	NM_006324.1	747	ctgcgcgggtcagggttaaaaaa	278421	-	see also 18616 line
42187	CG005	NM_014887.1	496	tccgcagcagcagatgatatag	278438	-	see also 18617 line
42188	CG005	NM_014887.1	1238	atcgatatgtgagtaatgtgttc	278463	-	see also 18617 line
42189	CGI-51	NM_015380.3	478	aggtgatagcagcactccaatg	278482	-	see also 6402 line
42190	CGI-51	NM_015380.3	1468	cgtcggttggaaacttaattact	278509	-	see also 6402 line
42191	ch-TOG	NM_014756.1	2743	agggctgactcaatgatcaaat	278587	-	see also 18619 line
42192	ch-TOG	NM_014756.1	2742	aaggctgactcaatgatcaaaa	278586	-	see also 18619 line
42193	CHIC2	NM_012110.2	324	ggcggatttcgacgaatctatg	278674	-	see also 5137 line
42194	CHORDC1	NM_012124.1	176	cggcttttcacgactcaataag	278688	-	see also 5146 line
42195	CHORDC1	NM_012124.1	165	cccaggtgtccggttttcacg	278686	-	see also 5146 line
42196	CHRD	NM_003741.2	683	acccggagcatcgagttatagc	278693	-	see also 18622 line

1140

図46 (続き)

42197	CHRD	NM_003741.2	682	gacccggagcatorgcagttatag	278692	-	see also 18622 line	-
42198	CISH	NM_013324.4	657	caccaatgtacgcattgagtag	278704	-	-	-
42199	CISH	NM_013324.4	885	agccactgtctgacacctaataac	278706	-	see also 42198 line	-
42200	CISH	NM_013324.4	658	accaatgtacgcattgagtag	278705	-	see also 42198 line	-
42201	COL6A1	NM_001848.1	423	gcgcgcagcagcactcaaaagcagc	278708	-	see also 18623 line	-
42202	COL6A1	NM_001848.1	481	cacgcagctgcgtatcaagaagg	278709	-	see also 18623 line	-
42203	CP110	NM_014711.3	2953	agctgccttgtagcgttttcatg	278814	-	see also 5904 line	-
42204	CP110	NM_014711.3	1326	aagtgcacacacctatcacgaact	278752	-	see also 4722 line	-
42205	CRF	NM_006688.3	718	ggcaagttacagtcgaacattcc	278826	-	see also 4722 line	-
42206	CRF	NM_006688.3	279	cccggaaggccactatgagatgc	278824	-	see also 4722 line	-
42207	CRISP3	NM_006061.1	543	ttggctaatgactatattgtcc	278837	-	see also 18625 line	-
42208	CRISP3	NM_006061.1	278	aggatcgaatgacaagctaaaa	278831	-	see also 18625 line	-
42209	CRYPTIC	NM_032545.2	255	tacggtcagtttggcattacaga	278846	-	see also 18626 line	-
42210	CRYPTIC	NM_032545.2	267	ggcattacagatcatcaatttgg	278847	-	see also 18626 line	-
42211	GSDUFD1	NM_031919.1	213	tactctatactggatgaagtaaa	278853	-	see also 9052 line	-
42212	GSDUFD1	NM_031919.1	289	tacaggtcagattagtaattgt	278858	-	see also 9052 line	-
42213	CSN3	NM_005212.1	263	aacgtagaccagctatagcaatt	278871	-	see also 18628 line	-
42214	CSN3	NM_005212.1	259	taccaacgttagaccagctatagc	278870	-	see also 18628 line	-
42215	CSR2	NM_001321.1	336	ggcggagagggctggcgcatcaaac	278882	-	see also 18629 line	-
42216	CSR2	NM_001321.1	235	ttcaagatgaagagatctactgc	278881	-	see also 18629 line	-
42217	CTAG2	NM_020994.1	448	gtccggcaacctactgtttttgt	278884	-	see also 18631 line	-
42218	CTAG2	NM_020994.1	654	ggaggtgcgtttaaattgtgatg	278889	-	see also 18631 line	-
42219	CTDSP2	NM_005730.2	473	cactgagctgcgtcgatataagg	278900	-	see also 18632 line	-
42220	CTDSP2	NM_005730.2	400	ctcgtggagcgttaacatcttcaag	278898	-	see also 18632 line	-
42221	CTDSP1	NM_005808.1	636	ggcgggtgctgactatggaaaga	278914	-	see also 18633 line	-
42222	CTDSP1	NM_005808.1	699	ttcgttaagcctattagtaattg	278915	-	see also 18633 line	-
42223	CTNND1	NM_001331.1	1392	cagcgttagttaggctctatgta	278932	-	see also 884 line	-
42224	CTNND1	NM_001331.1	2603	ctggacgtatagtgatatacatcc	278966	-	see also 884 line	-
42225	CUL4B	NM_003588.2	945	caccgtctctagctttgtctaaca	278999	-	see also 2381 line	-
42226	CUL4B	NM_003588.2	2454	ggcgtattggccgacatatgtgc	279055	-	see also 2381 line	-
42227	CXorf1	NM_004709.1	562	ggccctgcacaaagaacatatctgt	279078	-	see also 18636 line	-
42228	CXorf1	NM_004709.1	370	agcatcccccactgactattctt	279070	-	see also 18636 line	-
42229	CXorf12	NM_003492.1	851	ctcggctacctacttagctttgg	279083	-	molecular_function unknown	-
42230	CXorf12	NM_003492.1	846	accacctcggctacctacttagc	279082	-	see also 42229 line	-
42231	CXorf12	NM_003492.1	347	ggctgtgttaacgggcattttcg	279080	-	see also 42229 line	-
42232	CXorf2	NM_001586.1	267	aggccttagcccaacttaacagg	279084	-	see also 18637 line	-
42233	CXorf2	NM_001586.1	923	agggaacagcgtgaatgagatttac	279088	-	see also 18637 line	-
42234	CXorf6	NM_005491.1	2084	ggcgtgtacccgttcaacattac	279131	-	see also 18638 line	-
42235	CXorf6	NM_005491.1	2087	gtgtcacccgttcaacattactca	279133	-	see also 18638 line	-
42236	CXX1	NM_003928.1	396	gggaggggtccgctgtgtactgg	279138	-	see also 18639 line	-
42237	CYYR1	NM_052954.1	251	ctgcaattggggcattgttttt	279140	-	see also 18640 line	-
42238	CYYR1	NM_052954.1	424	gaccacagagatgggaattgtgc	279142	-	see also 18640 line	-
42239	CYYR1	NM_052954.1	252	tgcattgcgggcattgtttttg	279141	-	see also 18640 line	-

1141

図46 (続き)

42240	DGCR14	NM_022719.1	977	aacacacccttgagagtggaagg	279145	-	-	-
42241	DGCR14	NM_022719.1	439	gcctgcgccagccttagatgtct	279143	-	-	see also 42240 line
42242	DGCR14	NM_022719.1	884	tcctctcagtgagtgagattgg	279144	-	-	see also 42240 line
42243	DIPA	NM_006848.1	450	gcctgcgcctggcggaagaatgg	279147	-	-	see also 18641 line
42244	DISC1	NM_018662.1	1666	agccaccgggaaccataaaggcgc	279160	-	-	see also 18642 line
42245	DISC1	NM_018662.1	116	cgagcagcccgagattgcttac	279149	-	-	see also 18642 line
42246	DISC1	NM_018662.1	1175	gacgttaacaaagattagaag	279158	-	-	see also 18642 line
42247	DKFZP434	NM_015453.1	1647	caggccgagctgtactactact	279208	-	-	see also 18643 line
42248	DKFZP434	NM_015453.1	537	gagaccgtggcaagatatatttt	279181	-	-	see also 18643 line
42249	G1415	NM_031292.1	981	aagcgattggttttttagctatc	279231	-	-	see also 18644 line
42250	DKFZP434	NM_031292.1	2026	aacgaaagggtccacatgatg	279264	-	-	see also 18644 line
42251	B167	NM_015415.1	363	cagctcaatctgcgtgttttgatg	279271	-	-	see also 18645 line
42252	DKFZP564	NM_015415.1	477	gagcctctcagcttttctgtatt	279277	-	-	see also 18645 line
42253	C186	NM_015658.1	97	tcggaatccgagtcggaataatc	279278	-	-	see also 18646 line
42254	DKFZP564	NM_015658.1	98	cogaatccgagtcggaataatct	279279	-	-	see also 18646 line
42255	DKFZP564	NM_015658.1	609	caggcaactgctgcattcaatg	279281	-	-	see also 18646 line
42256	DKK4	NM_014420.1	743	atcgagcagctgctgatttaaga	279292	-	-	see also 18647 line
42257	DKK4	NM_014420.1	749	agcatgctgatttaagagtagtc	279295	-	-	see also 18647 line
42258	DLG7	NM_014750.3	1938	atcgctagctgcccataaaaaat	279341	-	-	see also 5943 line
42259	DLG7	NM_014750.3	1815	ctggagtggaagtcgaataaat	279338	-	-	see also 5943 line
42260	DLG7	NM_014750.3	577	gggtcgtatagaacctgatatgc	279309	-	-	see also 5943 line
42261	DLGAP1	NM_004746.2	1711	aactaccacgaacaccttcattt	279384	-	-	see also 18649 line
42262	DLGAP1	NM_004746.2	1049	tacacccacagagtgaaagatga	279372	-	-	see also 18649 line
42263	DOC1	NM_014890.1	1345	ctctagaacgaagtagtctaata	279426	-	-	see also 18650 line
42264	DOC1	NM_014890.1	1014	aagtcgaacacccgattgagaaga	279420	-	-	see also 18650 line
42265	DONSON	NM_017613.2	381	cggtcccgcttttttagatttaata	279470	-	-	see also 7054 line
42266	DONSON	NM_017613.2	378	cccggtcccgcttttttagattct	279468	-	-	see also 7054 line
42267	DPI	NM_005669.3	321	ctgaattctctctgatatcttc	279507	-	-	see also 18652 line
42268	DSR10	NM_148676.1	548	ttctctgctgagctggtttatgg	279508	-	-	-
42269	DSR3	NM_006052.1	560	gagctatcatcgcggtttgtca	279518	-	-	see also 4213 line
42270	DSR3	NM_006052.1	699	cccggtgacttcacgattacacc	279522	-	-	see also 4213 line
42271	DSR4	NM_005867.1	118	atcttgacagagatgatgaaco	279531	-	-	see also 18654 line
42272	DSR4	NM_005867.1	115	atcatcttgacgagagatgatga	279530	-	-	see also 18654 line
42273	DSR6	NM_018962.1	460	cccatgtcaagcgctcaagaata	279539	-	-	see also 18655 line
42274	DSR6	NM_018962.1	465	gtcaaaagcgctcaagaataactgc	279540	-	-	see also 18655 line

図46 (続き)

1142

42275	DSOR8	NM_032589.1	382	aagtctggccagctatgagctoo	279543	-	see also 18656 line
42276	DSOR9	NM_148675.1	921	goccatgtctgcggtgaactgc	279546	-	see also 18657 line
42277	DSOR9	NM_148675.1	981	ggcgtctctccagcgtatgctagg	279547	-	see also 18657 line
42278	DSOR979E	NM_006014.2	696	ttccgtcataactttcttgacc	279550	-	-
42279	DSOR979E	NM_006014.2	689	tcggaattccgctcacaacttt	279549	-	see also 42278 line
42280	E46L	NM_013236.1	1003	ttcgccgcatgctgagttgattgc	279585	-	see also 5355 line
42281	E46L	NM_013236.1	280	ggcgtcacggcctctcaaga	279552	-	see also 5355 line
42282	EAT2	NM_053282.1	372	ggagatgggttccacctttaaa	279605	-	see also 9494 line
42283	EAT2	NM_053282.1	326	tcacagcctaagaagaactgctct	279603	-	see also 9494 line
42284	EAT2	NM_053282.1	224	ctgtgtctctgttaaaaatttg	279600	-	see also 9494 line
42285	EML4	NM_019063.2	928	ttcgccggtcgcccaattacocatg	279630	-	see also 18660 line
42286	EML4	NM_019063.2	1551	agcgcaatttcaactaacaagaaa	279659	-	see also 18660 line
42287	EML4	NM_019063.2	929	ggcggttcggcccaattaccatgt	279631	-	see also 18660 line
42288	EPB41L4A	NM_022140.2	1963	atccgattgtccgagaagaacaat	279750	-	see also 8303 line
42289	EPB41L4A	NM_022140.2	1894	ttcgagagggcccgatatacaag	279747	-	see also 8303 line
42290	ERH	NM_004450.1	211	gtccctctatcacatattgacatc	279754	-	see also 18662 line
42291	ERH	NM_004450.1	204	cccaacagtcctctatacaata	279751	-	see also 18662 line
42292	ERH	NM_004450.1	298	ccagacataccagccttataac	279756	-	see also 18662 line
42293	ET	NM_024311.2	1152	agcaagaacaatcgttttgtag	279782	-	see also 8609 line
42294	ET	NM_024311.2	1450	cagccgtggcattttctacagc	279795	-	see also 8609 line
42295	FAF1	NM_007051.2	905	aagaacgtacgtctctaaatct	279809	-	see also 4936 line
42296	FAM3A	NM_021806.1	665	gtcaacgacctgttgagtttat	279845	-	see also 18664 line
42297	FAM3A	NM_021806.1	429	cgccagggccaggaagtaacaag	279842	-	see also 18664 line
42298	FAMCD2	NM_033084.2	1752	ctctagcaccgtattcaagtaca	279899	-	see also 18665 line
42299	FAMCD2	NM_033084.2	863	tgagataagttgtctctattaga	279865	-	see also 18665 line
42300	FANCE	NM_021922.1	1125	cagcttctcaggaattgtagtc	279968	-	see also 18666 line
42301	FANCE	NM_021922.1	1320	ggctcccgctgcttacaactgc	279970	-	see also 18666 line
42302	FANCE	NM_022725.1	1074	ttcgtagtgctcattaggaaa	279989	-	see also 18667 line
42303	FANCE	NM_022725.1	1071	ctcttcgttagtgctcattagg	279988	-	see also 18667 line
42304	FETUB	NM_014375.1	614	caccgagtcctctcgaaataca	280005	-	see also 18668 line
42305	FETUB	NM_014375.1	303	aacgagcccgaggaatacagaag	279994	-	see also 18668 line
42306	FEZ2	NM_005102.1	503	cacagtcagatcggttttcaatg	280024	-	see also 18669 line
42307	FEZ2	NM_005102.1	891	accgtctgttgaaagatcttcaaa	280033	-	see also 18669 line
42308	FHL1	NM_001449.3	984	tgcccaacaagcgctttgtttc	280048	-	see also 18670 line
42309	FHL1	NM_001449.3	983	ctggccaacaagcgctttgttt	280047	-	see also 18670 line
42310	FHL1	NM_001449.3	1007	caccaggaacaagtgattgtcc	280049	-	see also 18670 line
42311	FKBPL	NM_022110.3	271	atggagagcccgccagcaatcac	280051	-	see also 18671 line
42312	FKBPL	NM_022110.3	732	aactggggggagctcattagaga	280059	-	see also 18671 line
42313	FKSG2	NM_021631.1	190	agcaagataatcaactagtgtga	280066	-	see also 18672 line
42314	FKSG2	NM_021631.1	451	taccgtaaggaatgctcagtaga	280070	-	see also 18672 line
42315	FLJ10525	NM_018126.1	935	accatatttgaggacctatttt	280098	-	see also 7269 line
42316	FLJ10525	NM_018126.1	936	cccatatttgaggacctatttta	280099	-	see also 7269 line
42317	FLJ10525	NM_018126.1	905	ttcttacccttgatgattctct	280096	-	see also 7269 line
42318	FLJ10769	NM_018210.1	122	aagagcgcttttcgctacgtaag	280111	-	see also 18674 line

1143

図46 (続き)

42319	FLJ10769	NM_018210.1	136	tacgaagcaccattcgataaag	280113	-	see also 18674 line
42320	FLJ10769	NM_018210.1	126	ggcttttcgctacgtaaacaca	280112	-	see also 18674 line
42321	FLJ11294	NM_018383.2	3430	ccgaggaacacagttttcagagg	280193	-	see also 7429 line
42322	FLJ11294	NM_018383.2	3235	ggccacccgggtacgtagattga	280192	-	see also 7429 line
42323	FLJ11749	NM_024591.2	288	ggccatggctcagagtgattgagt	280202	-	see also 18676 line
42324	FLJ11749	NM_024591.2	312	caccagatcgaatgaagtgga	280205	-	see also 18676 line
42325	FLJ13448	NM_025147.2	447	ctgtgttgagcgatatacatca	280223	-	see also 18677 line
42326	FLJ13448	NM_025147.2	143	ccgttgaggaatggcagatattt	280209	-	see also 18677 line
42327	FLJ14007	NM_024699.1	467	tgtctgagcgataagcatttac	280247	-	see also 18678 line
42328	FLJ14007	NM_024699.1	56	ttgcggcgagcgagattttcttc	280237	-	see also 18678 line
42329	FLJ20485	NM_019042.2	1915	taccgaagatcattattctcc	280276	-	see also 18679 line
42330	FLJ20485	NM_019042.2	1607	atcgcttaattgtattcatcagc	280256	-	see also 18679 line
42331	FLJ21128	NM_025083.2	1567	acgcagcgcgtatctatttggc	280313	-	see also 18680 line
42332	FLJ21128	NM_025083.2	983	tggcctgtgttcccaagtattt	280303	-	see also 18680 line
42333	FLJ21827	NM_020153.2	605	ctcaacggggcgttttagtgaat	280318	-	see also 7771 line
42334	FLJ21827	NM_020153.2	603	acctaaccggggcgttttagtgaat	280317	-	see also 7771 line
42335	FLJ21827	NM_020153.2	850	atccagctgtcggagatattga	280320	-	see also 7771 line
42336	FLJ32452	NM_144576.2	432	ggcttaactcggagcgtagaatca	280333	-	see also 18682 line
42337	FLJ32452	NM_144576.2	447	tagaataatgggtactcaatgc	280334	-	see also 18682 line
42338	FN5	NM_020179.1	344	ggcgtgtgtgtctctgtatcgc	280347	-	-
42339	FSD1	NM_024333.1	1224	tgggtcgtgcacgtcaacattg	280358	-	see also 18683 line
42340	FSD1	NM_024333.1	438	gocctcggctatcattgaaagc	280351	-	see also 18683 line
42341	GAGEC1	NM_007003.2	232	acctcgcgtcgaagaagtaag	280363	-	see also 18684 line
42342	GAGEC1	NM_007003.2	235	tcggatcgaagaacgtaaaagttag	280364	-	see also 18684 line
42343	GAS8	NM_001481.1	720	ctcgacttggaggagaagaactga	280376	-	see also 1020 line
42344	GAS8	NM_001481.1	718	aactcgacttggaggagaagaact	280375	-	see also 1020 line
42345	GCN5L1	NM_001487.1	104	gtccgcctctctaaaaaagacacc	280383	-	molecular_function unknown
42346	GCN5L1	NM_001487.1	422	tgcactgcactggaatgtct	280385	-	see also 42345 line
42347	GCN5L1	NM_001487.1	242	ggctacatgatcaaccagagaagc	280384	-	see also 42345 line
42348	GKN1	NM_019617.2	536	tgtacacgacccagtgtactatg	280403	-	see also 18687 line
42349	GKN1	NM_019617.2	541	cacgaccagtgtactatggattg	280404	-	see also 18687 line
42350	GLTSCR2	NM_015710.2	165	ggcggggcccaagaataagaag	280407	-	see also 18688 line
42351	GLTSCR2	NM_015710.2	163	ggcggcgagggcccaagaataaga	280406	-	see also 18688 line
42352	GPM6B	NM_005278.2	543	agcgggtgcccgttttattctt	280421	-	see also 3703 line
42353	GPM6B	NM_005278.2	717	ctgcaacacacacagctttaca	280426	-	see also 3703 line
42354	GPR155	NM_152529.3	1301	ctgtcccatctgtacgtttct	280481	-	see also 18690 line
42355	GPR155	NM_152529.3	865	ctcggaactctcgtgtattaca	280463	-	see also 18690 line
42356	GREB1	NM_014668.2	1184	cgcggccatcggttttaggtatc	280544	-	see also 5843 line
42357	GREB1	NM_014668.2	344	aagaggttttgcaacaattccatc	280532	-	see also 5843 line
42358	GTSEI	NM_016426.3	1616	accgatgaccccccaaacgatgc	280627	-	see also 18693 line
42359	GTSEI	NM_016426.3	1179	gccaaagcgggtcggtattttctga	280626	-	see also 18693 line
42360	H-plk	NM_015852.1	2485	tcctcaaaacttagtacatgtaa	280641	-	see also 18694 line
42361	H-plk	NM_015852.1	2487	ctcaaaacttagtacatgtaa	280642	-	see also 18694 line

1144

図46 (続き)

42362	H41	NM_017548.2	615	ctcagggttaaggcaatgaaat	280643	-	see also 18695 line
42363	H41	NM_017548.2	673	gacaagatccagggtataactgg	280644	-	see also 18695 line
42364	HBLD1	NM_194279.1	287	aaccocgaacagagggtatttga	280652	-	see also 18696 line
42365	HBLD1	NM_194279.1	240	gtgatctcccggtattccaatgc	280646	-	see also 18696 line
42366	HCG9	NM_005844.2	155	ctcctggtcccgaaagaggagg	280655	-	see also 18697 line
42367	HERPUD1	NM_014685.1	628	cagacagactacatgcaatat	280665	-	see also 18698 line
42368	HERPUD1	NM_014685.1	1061	tccctccctcgaagttgtaaatc	280675	-	see also 18698 line
42369	HHLA2	NM_007072.2	579	ggggtccgaagtcgtatacaot	280685	-	see also 18699 line
42370	HHLA2	NM_007072.2	576	ggggggtccgaagtcgtataac	280683	-	see also 18699 line
42371	HRASL3	NM_007089.1	859	gagtcattgtctcaagaacaag	280722	-	see also 18700 line
42372	HRASL3	NM_007089.1	857	tggggtcattgtctcaagaaca	280721	-	see also 18700 line
42373	HSA27219	NM_018405.2	524	gcctccactgtataccctattatt	280728	-	see also 18701 line
42374	HSA27219	NM_018405.2	529	cactgtataccctatttccaag	280729	-	see also 18701 line
42375	HSA27219	NM_018405.2	516	caccatccgctccactatacc	280727	-	see also 18701 line
42376	HSHIN1	NM_017493.4	81	agcgttatagaaggtacatttg	280730	-	see also 18702 line
42377	HSHIN1	NM_017493.4	245	ttcctgaaaggtgttacttgt	280731	-	see also 18702 line
42378	HSPC117	NM_014306.2	1410	atctcgagctaaatttagatttc	280765	-	see also 5612 line
42379	HSPC121	NM_016395.1	191	ggacaacccggagctatatctgc	280774	-	see also 18704 line
42380	HSPC121	NM_016395.1	969	ctcacatggcttctgtaactct	280792	-	see also 18704 line
42381	HSPC148	NM_016403.1	698	atcacacactcgatctgaattt	280815	-	see also 18705 line
42382	HSPC148	NM_016403.1	210	tgcacctgaaggttctgtaacc	280805	-	see also 18705 line
42383	HSPC177	NM_016410.2	660	aagggtttccactgatatacaaa	280820	-	see also 18706 line
42384	HSPC177	NM_016410.2	452	atgcacagattgaggtattaca	280819	-	see also 18706 line
42385	HSRG1	NM_014940.2	1892	ttcgttaccaccccaagtactcc	280834	-	see also 18707 line
42386	HSRG1	NM_014940.2	728	cggctaccactgggtgtaatgacc	280824	-	see also 18707 line
42387	IFIT2	NM_005532.1	351	ctcggattgacaaagttcattcc	280837	-	see also 18708 line
42388	IFIT2	NM_005532.1	147	caggattgtcacagttgtgattg	280836	-	see also 18708 line
42389	IFIT1	NM_001548.1	67	gagtaacaatgggtgagatc	280838	-	see also 18709 line
42390	IFIT1	NM_001548.1	786	aagaagctctagccaacatgcc	280847	-	see also 18709 line
42391	IFIT4	NM_001549.2	1090	ttcctggagacgggaatttata	280869	-	see also 18710 line
42392	IFIT4	NM_001549.2	238	tacaacttctggcctacataaa	280854	-	see also 18710 line
42393	IFIT5	NM_012420.1	646	aacatcggtctgtctatcacagt	280890	-	see also 18711 line
42394	IFIT5	NM_012420.1	1433	gtgccttaggggtttgttacaag	280911	-	see also 18711 line
42395	IFRD2	NM_006784.2	617	cccgacacccgccatgaatgc	280919	-	see also 18712 line
42396	IFRD2	NM_006784.2	1330	atcgctgcgggtgaaacattgc	280920	-	see also 18712 line
42397	IMPACT	NM_018439.1	281	aacgtgcggatttcaaatagc	280931	-	see also 18719 line
42398	IMPACT	NM_018439.1	278	aagaacgtgcgatttcaaat	280930	-	see also 18719 line
42399	JPH1	NM_020647.1	1297	aggccctgattacgtcaaacaga	280956	-	see also 7905 line
42400	JPH1	NM_020647.1	289	gggggagtggtcacatgggttca	280945	-	see also 7905 line
42401	KERA	NM_007035.2	1333	gtggcctttttgagactaaatca	280980	-	see also 18715 line
42402	KERA	NM_007035.2	1564	ttcagttatggacctcatctcgg	280986	-	see also 18715 line
42403	KERA	NM_007035.2	1588	tacctcctctgtaggaaatga	280987	-	see also 18715 line
42404	KIAA0174	NM_014761.1	850	caggccctttcccaattatcc	281005	-	see also 18716 line
42405	KIAA0174	NM_014761.1	629	ctggggttagagacagatctatt	281000	-	see also 18716 line

1145

図46 (続き)

42406	KIAA0186	NM_021087.1	540	aagtcggtgtctctaaagactat	281020	-	see also 18717 line
42407	KIAA0186	NM_021087.1	542	gtcgggtgtctctaaagactatgg	281021	-	see also 18717 line
42408	KIAA0186	NM_021087.1	255	gacgaagtgtattgataccaact	281011	-	see also 18717 line
42409	KIAA0285	NM_014807.2	1624	cccgatataagcgcgaattaga	281030	-	see also 18718 line
42410	KIAA0285	NM_014807.2	2062	gagacaaccgcgtcggatatttc	281033	-	see also 18718 line
42411	KIAA0905	NM_014933.1	2259	ggcatggcacactagtactgtagg	281100	-	see also 18719 line
42412	KIAA0905	NM_014933.1	959	cacacagtggtgcttgcgatattc	281066	-	see also 18719 line
42413	KIAA0905	NM_014933.1	1170	cagaactgctagcagcatagtagt	281077	-	see also 18719 line
42414	KIAA1173	NM_020707.2	1009	ctcgtcgtcgtcgtcgttctcaaa	281138	-	see also 18720 line
42415	KIAA1173	NM_020707.2	357	ctcttttcgaaagtcatactct	281133	-	see also 18720 line
42416	KREMEN1	NM_032045.3	906	tggacttcgctcatctgttatttc	281168	-	see also 9071 line
42417	KTNI	NM_004986.1	1960	aacgtgacgtgtttaacaagtaaa	281220	-	see also 3481 line
42418	KTNI	NM_004986.1	1432	aactacgcagcaggtattgctagg	281205	-	see also 3481 line
42419	LENG1	NM_024316.1	735	ggcgggtacaactcccaattoaac	281276	-	see also 18723 line
42420	LENG1	NM_024316.1	138	agcaagagggccggtacagaattc	281273	-	see also 18723 line
42421	LENG4	NM_024298.2	1459	gtggctggcgcagtatattctaca	281281	-	see also 18724 line
42422	LENG4	NM_024298.2	1464	tggcgccgtatattctacaagagc	281283	-	see also 18724 line
42423	LGP1	NM_032484.3	1615	gtgcgaggggaagatatgttga	281293	-	see also 18725 line
42424	LGP1	NM_032484.3	1749	tcccactcagcaggtgttgg	281294	-	see also 18725 line
42425	Lin10	NM_025187.3	344	gactcagcagcaggtacaaactaa	281300	-	see also 8875 line
42426	Lin10	NM_025187.3	346	ctcaggaagcgggtacaaactaatg	281301	-	see also 8875 line
42427	LLGL1	NM_004140.2	65	aggagcttttcgcttcaacaag	281325	-	see also 18727 line
42428	LLGL1	NM_004140.2	310	tggagagattgtccaccataatgg	281329	-	see also 18727 line
42429	LMCD1	NM_014583.2	1036	tgtctccggctgcgatgagataat	281357	-	see also 5763 line
42430	LMCD1	NM_014583.2	1039	tccggctgcgatgagataatatt	281359	-	see also 5763 line
42431	LMCD1	NM_014583.2	1038	ctccggctgcgatgagataat	281358	-	see also 5763 line
42432	LMNB2	NM_032737.2	1767	ctcggctgcgatgagataatgaga	281367	-	see also 18729 line
42433	LMNB2	NM_032737.2	1556	ggagagagatcgcctacaagtgc	281384	-	see also 18729 line
42434	LMO6	NM_006150.3	1088	ggcaagccgagggcctaattctct	281373	-	see also 18730 line
42435	LMO6	NM_006150.3	1087	tgcacagccgagggcctaattcttc	281372	-	see also 18730 line
42436	LOC13061	NM_138802.1	519	aacgctgtagccgaaactcttgc	281392	-	see also 9640 line
42437	LOC13061	NM_138802.1	438	cacagcaaaaacgtaagatcttc	281385	-	see also 9640 line
42438	LOC55974	NM_018845.1	291	tgcgttcagaccctgtatatct	281396	-	see also 18732 line
42439	LOC55974	NM_018845.1	639	aggaaatgtaaccagctttatcc	281405	-	see also 18732 line
42440	LOC91614	NM_139160.1	631	agcggctatggactacaagtagt	281413	-	see also 18733 line
42441	LOC91614	NM_139160.1	1204	accagaccgaacacagacttagtga	281429	-	see also 18733 line
42442	LPIN1	NM_145693.1	2656	tccggatacttcagtaacttca	281505	-	see also 18734 line
42443	LPIN1	NM_145693.1	992	ggcattcacagcagacttccaga	281475	-	see also 18734 line
42444	LPP	NM_005578.1	385	cggtagtctctcaaaaactaa	281507	-	see also 3879 line
42445	LPP	NM_005578.1	1714	ggcaccgggaagcctatctatcc	281523	-	see also 3879 line
42446	LRBA	NM_006726.1	2169	atggaccgcgacctaatacaaaa	281595	-	see also 4735 line
42447	LRBA	NM_006726.1	2170	tggaccgcgacctaataaaaaag	281596	-	see also 4735 line
42448	LRG	NM_052972.1	635	gagggggtccgtgcaattagaac	281796	-	see also 18737 line
42449	LRG	NM_052972.1	928	acctgagcgaacctctctgttgg	281800	-	see also 18737 line

図46 (続き)

1146

42450	LRPPRC	NM_133259.2	862	cacataccctgcattatgaatg	281821	-	see also 9557 line
42451	LRPPRC	NM_133259.2	3384	gcctcatcatacgaagttagg	281899	-	see also 9557 line
42452	LY6G5B	NM_021221.1	1254	tacttgcttcataatgattgaag	281922	-	see also 18739 line
42453	LY6G5B	NM_021221.1	888	gtgataccactatattatggt	281917	-	see also 18739 line
42454	LY9	NM_002348.1	918	aacggcagatccactcaataat	281932	-	see also 18740 line
42455	LY9	NM_002348.1	1788	tcacatctcaggaagtgaat	281941	-	see also 18740 line
42456	MAC30	NM_014573.1	490	tcogatactctccactctctgt	281943	-	see also 18741 line
42457	MAC30	NM_014573.1	611	atccattactacttttaatttt	281944	-	see also 18741 line
42458	MAD1L1	NM_003550.1	2024	gcggctcaaggagggtttccaga	281955	-	see also 18742 line
42459	MAD1L1	NM_003550.1	760	tggacctcaacacacaaaaatgc	281952	-	see also 18742 line
42460	MAGEA4	NM_002362.3	833	atgctctgggcacaaattgcaat	281958	-	see also 18743 line
42461	MAGEA4	NM_002362.3	550	cagtaacaagggtggaatggttg	281956	-	see also 18743 line
42462	MAGEA5	NM_021049.2	436	caactataggaggcaattccatta	281962	-	see also 18744 line
42463	MAGEA5	NM_021049.2	419	cccaactgcaatgattcaactct	281960	-	see also 18744 line
42464	MAGE2	NM_019066.2	797	ggccacacgctagcttttcata	281968	-	see also 18746 line
42465	MAGE2	NM_019066.2	1266	atgagtccttagatatacatcaac	281971	-	see also 18746 line
42466	MCSP	NM_030663.2	459	cccatagccacacaaaatgagtc	281996	-	see also 18748 line
42467	MCSP	NM_030663.2	455	cagcccatagccacacaaaatga	281995	-	see also 18748 line
42468	MFAP4	NM_002404.1	253	cggggaagtggacgggtttccaga	281999	-	see also 18749 line
42469	MGC13272	NM_032355.2	1701	ctgcccactcaagcaccattac	282009	-	see also 9170 line
42470	MGC26979	NM_153704.2	2277	ttcgacagttcgttgattatgc	282084	-	see also 10013 line
42471	MGC29816	NM_152272.1	1255	ccgcacataggcatttaccacac	282121	-	see also 9825 line
42472	MGC29816	NM_152272.1	1353	ttggtcccaagcagtaaatctcc	282123	-	see also 9825 line
42473	MLF2	NM_005439.1	267	agcatatgagccggtatgtgttca	282127	-	see also 18753 line
42474	MLF2	NM_005439.1	253	tctattcacogtcagcatataga	282128	-	see also 18753 line
42475	MLN51	NM_007359.3	1591	ctccggtgattcttagtaacaagt	282156	-	see also 5090 line
42476	MLN51	NM_007359.3	2196	caggcccatcacacaggtatatgg	282173	-	see also 5090 line
42477	MIN1	NM_002430.1	3337	agcgacacctggccagtaaatgg	282191	-	see also 18755 line
42478	MIN1	NM_002430.1	1634	agccgctgactcgcctggaataca	282181	-	see also 18755 line
42479	MIN1	NM_002430.1	4267	tgggcatatgcttaactctacc	282200	-	see also 18755 line
42480	MORF4L2	NM_012286.1	635	aagtgaaggagcggtttaagaata	282205	-	see also 18756 line
42481	MORF4L2	NM_012286.1	651	aagaatagaatggagggttaaaat	282209	-	see also 18756 line
42482	MPV17	NM_002437.3	83	cgtcacccgtaggaagtacagg	282219	-	see also 18757 line
42483	MPV17	NM_002437.3	330	ggctttgcccgcgtgtttctagg	282223	-	see also 18757 line
42484	MRPL39	NM_017446.2	64	caccctgggtggcgagatcaaatgg	282229	-	see also 7013 line
42485	MRPL39	NM_017446.2	884	gccaaagtctcaagaagaattcc	282267	-	see also 7013 line
42486	MRPL40	NM_003776.2	576	cacacaccgacccctactacc	282285	-	see also 18759 line
42487	MRPL40	NM_003776.2	131	ctcacacagagcgctcatgttg	282275	-	see also 18759 line
42488	MRPL40	NM_003776.2	137	agcgagcgtcattgtgtcttc	282277	-	see also 18759 line
							structural constituent of ribosome
42489	MRPS10	NM_018141.2	98	ggcaatacacgcaaaaatggtgg	282289	-	-
42490	MRPS10	NM_018141.2	146	tgggtacagttttcaaacctaca	282290	-	see also 42489 line
42491	MRPS10	NM_018141.2	157	ttcaaacctacacagttgatgttc	282291	-	see also 42489 line

1147

図46 (続き)

42492	MRPS22	NM_020191.2	503	accacacccggagcgtttattg	282311	-	see also 7791 line
42493	MRPS22	NM_020191.2	502	taccacacccggagcgtttatt	282310	-	see also 7791 line
42494	MRPS24	NM_032014.1	254	agcgaacggtggaggtattttc	282327	-	see also 18760 line
42495	MRPS24	NM_032014.1	120	ggcccgggtacagtaagaagg	282326	-	see also 18760 line
42496	MSLN	NM_005823.2	1322	ccctgctcagccgctttgtgaag	282340	-	see also 18761 line
42497	MSLN	NM_005823.2	1611	ggcgtcagtaagcagaatgtga	282342	-	see also 18761 line
42498	MSLN	NM_005823.2	1127	agctggacgtctcaagaataaa	282339	-	see also 18761 line
42499	MSMB	NM_002443.2	69	acctcgtgactttatgaatgc	282345	-	see also 18762 line
42500	MSMB	NM_002443.2	353	ttctgtcagtaagataattc	282356	-	see also 18762 line
42501	MUM-1	NM_032853.2	1401	taccagaacacacgtgtttga	282374	-	see also 18763 line
42502	MUM-1	NM_032853.2	1728	taagagcgtatataagctatcc	282381	-	see also 18763 line
42503	MUM-1	NM_032853.2	484	ttctgagcggagggctgttgg	282363	-	see also 18763 line
42504	NAG	NM_015909.1	1995	cgcccgattggcccatgttca	282437	-	see also 18764 line
42505	NAG	NM_015909.1	1913	atgctaaccgggtgtttgaaag	282432	-	see also 18764 line
42506	NAG	NM_015909.1	627	gtgctctagtcgcttgaataa	282397	-	see also 18764 line
42507	NAP1	NM_016481.2	172	cagtggctacttggaaattgt	282486	-	see also 18765 line
42508	NAP1	NM_016481.2	431	ccctcatgtcccaatgaatag	282496	-	see also 18765 line
42509	NCSTN	NM_015331.1	352	aggggttatccacgtagttaga	282516	-	see also 6367 line
42510	NCSTN	NM_015331.1	1162	ctcgaggatgtctacgatatgg	282535	-	see also 6367 line
42511	NDRG2	NM_016250.1	510	ggcgagatattctttaaccacc	282569	-	see also 6753 line
42512	NDRG2	NM_016250.1	259	caagatgtggactcaactataa	282559	-	see also 6753 line
42513	NDRG2	NM_016250.1	442	tgcctcctgcagctacctaattt	282564	-	see also 6753 line
42514	NEDF	NM_016079.1	241	agcaagctatgaatccaagc	282580	-	see also 18769 line
42515	NEDF	NM_016079.1	111	caaggcaataaaggatataccaaa	282575	-	see also 18769 line
42516	NEUGRN	NM_016645.1	680	ggcgaatagcgtatttaccatga	282582	-	see also 18770 line
42517	NEUGRN	NM_016645.1	764	gtgatccgaagagtttaaaag	282585	-	see also 18770 line
42518	NOC4	NM_006067.3	742	gacgctcgtggatttogaatacc	282597	-	see also 18771 line
42519	NOC4	NM_006067.3	455	agctcgtgattctgtgttatta	282588	-	see also 18771 line
42520	NOLA3	NM_018648.2	225	gacacggaatcaccatcaagaaa	282603	-	see also 7535 line
42521	NOLA3	NM_018648.2	203	tcccaagatgacaataactctcg	282602	-	see also 7535 line
42522	NPC2	NM_006432.3	161	ggccgaacccgtgcagttcaagg	282605	-	see also 18773 line
42523	NPC2	NM_006432.3	536	ccagtaacagatcgtttctatc	282614	-	see also 18773 line
42524	NRM	NM_007243.1	103	acctcccttcggccacttttgg	282616	-	see also 18774 line
42525	NRM	NM_007243.1	220	gggctcctgcttattttgttg	282617	-	see also 18774 line
42526	NTN2L	NM_006181.1	1558	acgcgacagcctaaagaagttc	282618	-	see also 18775 line
42527	NTNG1	NM_014917.1	930	aactagatctccggattatacc	282625	-	see also 6088 line
42528	NTNG1	NM_014917.1	1418	gacagagctcggttttttgttg	282642	-	see also 6088 line
42529	NTNG2	NM_032536.1	1160	tccaaccgctcagctacattga	282652	-	see also 18777 line
42530	NTNG2	NM_032536.1	294	cccatgagaatccctaatatgc	282650	-	see also 18777 line
42531	NXPH3	NM_007225.1	813	ggccagattacaactaatatag	282660	-	see also 18778 line
42532	NXPH3	NM_007225.1	320	ggggaggcttggggcattcttgg	282654	-	see also 18778 line
42533	NXPH4	NM_007224.1	485	ggctggggggacttctacttgc	282661	-	see also 18779 line
42534	NXPH4	NM_007224.1	862	ttgcacagtagagtagagaaga	282663	-	see also 18779 line
42535	NYREN18	NM_016118.3	707	acgtacttagacatagctaacc	282678	-	see also 6672 line

1148

図46 (続き)

42536	NYREN18	NM_016118.3	706	caccgacttagacataagctaac	282677	-	see also 6672 line
42537	OFD1	NM_003611.1	2103	aaagctcttagacacgtatgttc	282759	-	see also 2425 line
42538	OFD1	NM_003611.1	315	atggcgcagctccacacattttac	282702	-	see also 2425 line
42539	OTOF	NM_004802.2	2224	ggcacaagccggagatgagg	282798	-	see also 18782 line
42540	OTOF	NM_004802.2	1069	tcggcccatcattgcaattgaaa	282788	-	see also 18782 line
42541	OXR1	NM_181354.2	1752	ggcatogattacataaattcttg	282888	-	see also 10230 line
42542	OXR1	NM_181354.2	678	ttcgacatcccaagttttcaga	282857	-	see also 10230 line
42543	P53AIP1	NM_022112.1	426	tgccgacatcccaagttttcaga	282917	-	apoptosis
42544	P53AIP1	NM_022112.1	423	tggtccgacatcccaagttttc	282916	-	see also 42543 line
42545	P53AIP1	NM_022112.1	428	ccgacatcccaagttttcgaact	282918	-	see also 42543 line
42546	PART1	NM_016590.2	144	ttctgtacgtggcgctataatc	282923	-	see also 6935 line
42547	PDCD1LG	NM_025239.2	848	ctcacgtgagggaaacttacttg	282933	-	see also 18785 line
42548	PDCD1LG	NM_025239.2	972	ccagtgatagcccttaagaaaac	282935	-	see also 18785 line
42549	PHEMX	NM_005705.3	443	gacacctaagcacttgatatga	282936	-	see also 18786 line
42550	PHEMX	NM_005705.3	834	cccagggtggacccacacatgt	282939	-	see also 18786 line
42551	PHEMX	NM_005705.3	445	caactacgacctgggtatgagc	282937	-	see also 18786 line
42552	PKP2	NM_004572.1	236	tcgtggcaacggaaatcttca	282947	-	see also 18787 line
42553	PKP2	NM_004572.1	1600	taagctgacggagaaatcatca	282964	-	see also 18787 line
42554	PLAC1	NM_021796.1	505	caattcaactaccgtgtactatc	282984	-	see also 18788 line
42555	PLAC1	NM_021796.1	594	ttctaaggcaacgcaatctaagt	282989	-	see also 18788 line
42556	POLA2	NM_002689.2	701	ctcagaagcgagctatcttacc	283008	-	see also 1751 line
42557	POLA2	NM_002689.2	1739	gagtgatcttcggcttgacatcc	283030	-	see also 1751 line
42558	POPD2	NM_021352.2	270	gggtgtatggatgctctatct	283040	-	see also 18790 line
42559	POPD2	NM_021352.2	861	gagaagctctacactctcaatga	283046	-	see also 18790 line
42560	POPD3	NM_022361.3	487	gcagaaggagccattatcatct	283051	-	see also 8345 line
42561	POPD3	NM_022361.3	1076	ttgtcagcagctgctacatctcc	283067	-	see also 8345 line
42562	PP3111	NM_022156.3	763	tgacgcgtctcggagagcatatca	283082	-	see also 18792 line
42563	PP3111	NM_022156.3	518	ttggcctgcccacagatgatagc	283081	-	see also 18792 line
42564	PP35	NM_181581.1	427	gcccgaatggttcgatttcaaa	283090	-	see also 18793 line
42565	PP35	NM_181581.1	599	ctgctaaagatgcaagacttta	283101	-	see also 18793 line
42566	PRGC	NM_005973.4	1007	tcgctgcctctgctatacaagg	283130	-	see also 18794 line
42567	PRGC	NM_005973.4	916	cggatggctccctgatactaag	283129	-	see also 18794 line
42568	PRKAG2	NM_016203.2	1246	ccggtattgacccatcatcagtg	283161	-	see also 6719 line
42569	PRKAG2	NM_016203.2	866	gtgtttacatcgattcatgagg	283147	-	see also 6719 line
42570	PRM3	NM_021247.1	80	gccaagaatctccatgaaaaag	283170	-	see also 18796 line
42571	PRM3	NM_021247.1	122	aggataactctctcttgatca	283173	-	see also 18796 line
42572	PROK2	NM_021935.2	222	gactgttaagttccatttttg	283175	-	see also 18797 line
42573	PROK2	NM_021935.2	285	ggcctgtttacggacttcattta	283177	-	see also 18797 line
42574	PROL1	NM_021225.1	232	ctccctatgactcaagacttaat	283184	-	see also 18798 line
42575	PROL1	NM_021225.1	516	atcaaccacggcagatacaaat	283193	-	see also 18798 line
42576	PROSC	NM_007198.2	625	ggctagtggcggcagcaaaacc	283198	-	see also 18799 line
42577	PROSC	NM_007198.2	1244	tgagagcgggattactcaaga	283215	-	see also 18799 line
42578	PSG9	NM_002784.2	337	atcgatatgttgatgtaaaa	283230	-	see also 18801 line
42579	PSG9	NM_002784.2	324	accattacattatcgtatata	283229	-	see also 18801 line

1149

図46 (続き)

42580	PSMD9	NM_002813.4	515	caaggcccttcgccaagtgaac	283233	-	-	-
42581	PSMD9	NM_002813.4	241	gacgtgctggaagcccaaaagg	283232	-	see also 42580 line	
42582	PTD08	NM_016145.1	326	cccgagccggagactacataacc	283236	-	see also 18802 line	
42583	PTD08	NM_016145.1	325	accgagccggagactacataacc	283235	-	see also 18802 line	
42584	PTD08	NM_016145.1	257	ccacgagccggagcaaaagtgc	283234	-	see also 18802 line	
42585	PTTG1P	NM_004339.2	380	gtcttggtgcaacactacaacag	283238	-	see also 18803 line	
42586	PTTG1P	NM_004339.2	724	aaccgtatgctagattgaaa	283243	-	see also 18803 line	
42587	PTTG1P	NM_004339.2	725	accgtatgctagattgaaaac	283244	-	see also 18803 line	
42588	RAI2	NM_021785.2	1189	ttggcctgcaccccttaaaagg	283251	-	see also 18804 line	
42589	RAI2	NM_021785.2	1709	aagatgctgtgctaccatattc	283259	-	see also 18804 line	
42590	RCD-8	NM_014329.2	2535	ggagatggagatcgccataaac	283284	-	see also 5623 line	
42591	RCD-8	NM_014329.2	746	tgccgttggtgctgtgtaattg	283268	-	see also 5623 line	
42592	RER1	NM_007033.2	590	tactttctcgagctttcaacg	283303	-	see also 18807 line	
42593	RER1	NM_007033.2	289	ggagatctaccatctaaatttt	283299	-	see also 18807 line	
42594	RIK2	NM_018343.1	102	ggctcttgacgcgggtgaaatg	283306	-	see also 7410 line	
42595	RIK3	NM_003831.2	1326	tgcggcagttatcatatgaatg	283376	-	see also 2611 line	
42596	RIK3	NM_003831.2	1325	atgcggcagttatcatatgaatg	283375	-	see also 2611 line	
42597	RP1	NM_006269.1	4139	gagacatagctgtctgcaatgt	283500	-	see also 18809 line	
42598	RP1	NM_006269.1	5092	tgggtctaccgcgcaaatctcaagg	283526	-	see also 18809 line	
42599	RP42	NM_020640.2	84	ttcgtcagttatgatcttcoaca	283579	-	see also 18810 line	
42600	RP42	NM_020640.2	647	ttgttggaacatcaataacgac	283593	-	see also 18810 line	
42601	SACS	NM_014363.3	9994	ggcgtatgtaagcattgggaaa	283927	-	see also 5631 line	
42602	SACS	NM_014363.3	1963	aacgattgacagctctatcaag	283647	-	see also 5631 line	
42603	SBDS	NM_016038.2	827	ggctgtcttcggagaaattgata	284073	-	-	
42604	SBDS	NM_016038.2	880	ttcttggaagtactcaatctga	284075	-	see also 42603 line	
42605	SBDS	NM_016038.2	837	gagaaatgagagcaataaaaa	284074	-	see also 42603 line	
42606	SCA7	NM_000333.1	1844	acctcacaggagtgatctcttc	284083	-	see also 283 line	
42607	SCA7	NM_000333.1	2417	cagctaatggaaaccacactaaat	284092	-	see also 283 line	
42608	SCHIP1	NM_014575.1	1345	cagctacaagtgatagtcacaga	284111	-	see also 5762 line	
42609	SEL1L	NM_005065.3	900	agctcttgggggcaatctaatag	284133	-	see also 18814 line	
42610	SEL1L	NM_005065.3	1642	accgggtgatgcgcatcatgca	284157	-	see also 18814 line	
42611	SEP1	NM_016332.1	266	agcgtccggagcacaatagatct	284183	-	see also 18815 line	
42612	SEP1	NM_016332.1	265	aagcgtccggagcacaatagatc	284182	-	see also 18815 line	
42613	Shax3	NM_152284.2	520	agcagtaaaatctgttcacgaaa	284191	-	see also 18816 line	
42614	Shax3	NM_152284.2	297	aagagttaccctggaaaatcgatc	284188	-	see also 18816 line	
42615	SFHM1	NM_006304.1	304	aactagagaaaacatgggttaag	284198	-	see also 4396 line	
42616	SFHM3	NM_022039.2	1682	tctctactacagctgtgtacg	284200	-	see also 18818 line	
42617	SHOC2	NM_007373.1	873	ttgcgttaatgctataactact	284219	-	see also 5097 line	
42618	SHOC2	NM_007373.1	869	taccttgctttaatcgataaac	284217	-	see also 5097 line	
42619	SHOC2	NM_007373.1	870	accttcgtttaatcgataaac	284218	-	see also 5097 line	
42620	SIPA1L1	NM_015556.1	1192	ctcaagcagcgttcaaaatctga	284275	-	see also 6465 line	
42621	SIPA1L1	NM_015556.1	1940	ctcgtacaactacacgaataatt	284294	-	see also 6465 line	
42622	SKI	NM_003036.1	1049	ctgagcctccggcctccataaga	284363	-	see also 18820 line	
42623	SKI	NM_003036.1	435	gtgtctgctcgagattctcaact	284360	-	see also 18820 line	

1150

図46 (続き)

42624	SLC22A1L	NM_007105.1	1020	gtgtccagagagagatgcaagg	284368	-	see also 18821 line
42625	SLC35F2	NM_017515.3	726	gacaattcaggagatgtatt	284387	-	see also 18822 line
42626	SLC35F2	NM_017515.3	543	gactaccagtaacaactctaac	284383	-	see also 18822 line
42627	SMARCD1	NM_003076.3	1131	cctcaacgagcggggtttgtca	284407	-	see also 2067 line
42628	SNAP25	NM_003081.2	794	ggccaaccaacgtgcacaaga	284429	-	see also 18823 line
42629	SNAP25	NM_003081.2	692	cagtcacatggccctgatatgg	284426	-	see also 18823 line
42630	SOST	NM_025237.1	122	gtggcaggcgttcaagaatgatg	284433	-	see also 18824 line
42631	SOST	NM_025237.1	118	aggggtgagcaggctgaagaat	284431	-	see also 18824 line
42632	SPAG8	NM_012436.2	154	gtcggagcttttagacatacagc	284441	-	see also 18825 line
42633	SPAG8	NM_012436.2	780	cagatcgggtccctaaataacc	284451	-	see also 18825 line
42634	SPANXB1	NM_032461.2	391	aagactgaagacccataaaagt	284468	-	-
42635	SPATA2	NM_006038.2	1701	tgcttcagcggctaccattatga	284483	-	see also 4207 line
42636	SPATA2	NM_006038.2	414	aaggtggatcccttttatcgatt	284473	-	see also 4207 line
42637	SPRY3	NM_005840.1	514	tactcatctagcaactgaactag	284487	-	see also 18827 line
42638	SPRY3	NM_005840.1	681	ctcagcatctgagccaatctagc	284489	-	see also 18827 line
42639	SPRY3	NM_005840.1	985	tgctgagagccctctcga:atg	284491	-	see also 18827 line
42640	SQSTM1	NM_003900.2	725	tggaggatccgagtgtaatt	284498	-	see also 18828 line
42641	SQSTM1	NM_003900.2	793	gggcattgaattgatctgatg	284501	-	see also 18828 line
42642	ST7	NM_013437.2	1679	ctcctctgatggcaattgatt	284562	-	see also 5439 line
42643	ST7	NM_013437.2	291	cccaggcgaaatcattactataa	284514	-	see also 5439 line
42644	STAF65(gamma)	NM_014860.1	1053	accgcatacaggactatcaagt	284590	-	see also 18830 line
42645	STAF65(gamma)	NM_014860.1	1433	gtcttgaggagccctatgtcagg	284594	-	see also 18830 line
42646	SUMF2	NM_015411.1	226	aacctttgcatacgaatattt	284596	-	see also 18831 line
42647	SUMF2	NM_015411.1	870	atggcaacactccagattcagc	284602	-	see also 18831 line
42648	SURF2	NM_017503.2	729	aagcagttgggctcgttgtaaaa	284605	-	see also 18832 line
42649	SURF2	NM_017503.2	737	ggctcgttgaanaagaagtca	284606	-	see also 18832 line
42650	SURF4	NM_033161.2	764	ctcttgccatcaactatattt	284614	-	see also 18833 line
42651	SURF4	NM_033161.2	762	ggcttttgccatcaactatatt	284613	-	see also 18833 line
42652	SURF4	NM_033161.2	654	ttgacgcagcttctttctatt	284611	-	see also 18833 line
42653	SYMPK	NM_004819.1	1806	agccaggtccgcataaagatcc	284635	-	see also 18834 line
42654	SYMPK	NM_004819.1	1803	ggcagccaggtccgcataaaga	284633	-	see also 18834 line
42655	SYMPK	NM_004819.1	2894	agctctgatcgcttacacaac	284645	-	see also 18834 line
42656	TBL2	NM_012453.1	1212	ggcaggtatcgccaactgtcc	284659	-	see also 18835 line
42657	TBL2	NM_012453.1	1147	cagtagtattcatctctacaata	284657	-	see also 18835 line
42658	TCTEIL	NM_006520.1	366	aaccggaccgaactgtattgt	284687	-	see also 18836 line
42659	TCTEIL	NM_006520.1	199	ctgcaagcatagtggaacaatcc	284682	-	see also 18836 line
42660	TEX27	NM_021943.1	605	atcgtgctcgctgggttatgtg	284700	-	see also 8205 line
42661	TEX27	NM_021943.1	608	gtgtcgtcgtggttatgtgtt	284701	-	see also 8205 line
42662	TFG	NM_006070.3	368	ggagataatcggcgaattcctat	284704	-	see also 4215 line
42663	TFG	NM_006070.3	369	agatatcggcgaattcctatt	284705	-	see also 4215 line
42664	THSD3	NM_182509.2	358	tgccggggtatggccaacaacc	284738	-	see also 18839 line
42665	THSD3	NM_182509.2	853	tgctacggacatgatcatcaag	284741	-	see also 18839 line

図46 (続き)

1151

42666	THSD3	NM_182509.2	856	tacggacatgcatgatcaagatg	284742	-	see also 18839 line
42667	THY1	NM_006288.2	309	aacatgaaggctctactatc	284746	-	see also 4378 line
42668	THY1	NM_006288.2	287	aaccacttcaccacaaataca	284749	-	see also 4378 line
42669	TIMP3	NM_000362.3	1713	tggctacagtcacaaactaacg	284753	-	see also 296 line
42670	TIMP3	NM_000362.3	1508	gcgtctatgatggcaagatgac	284749	-	see also 296 line
42671	TLE4	NM_007005.3	1537	aaggaaattgcagctcgttatga	284764	-	see also 4888 line
42672	TLE4	NM_007005.3	3079	tccgtgacacacaaatcacattt	284781	-	see also 4888 line
42673	TM4SF1	NM_014220.1	159	ctgtgcacgcggctaattttt	284784	-	see also 18843 line
42674	TM4SF1	NM_014220.1	161	gtgcatcgcggctaatttttgc	284785	-	see also 18843 line
42675	TM4SF1	NM_014220.1	157	tccgtgcatcgcggctaattt	284783	-	see also 18843 line
42676	TM6SF1	NM_023003.1	793	tgcgattatatacgaat.tca	284827	-	see also 8537 line
42677	TM6SF1	NM_023003.1	203	tggctcgtgctcctgcaaaaga	284802	-	see also 8537 line
42678	TMEFF2	NM_016192.2	1182	tacottgtcgggaacattacaat	284857	-	see also 6717 line
42679	TMEFF2	NM_016192.2	1497	gagcgtccacgaggttaattctaa	284871	-	see also 6717 line
42680	TMEM14A	NM_014051.2	157	tggacctgcatcggttttggttat	284873	-	see also 18846 line
42681	TMEM14A	NM_014051.2	159	gacctgatcggttttggttatgc	284874	-	see also 18846 line
42682	TMEM14A	NM_014051.2	156	atggacctgcatcggttttggtta	284872	-	see also 18846 line
42683	TMEM8	NM_021259.1	951	ctcgggacagtggttttcagtcg	284886	-	see also 18847 line
42684	TMEM8	NM_021259.1	1035	agccaaaaccagaggttcaatgc	284887	-	see also 18847 line
42685	TMEM9	NM_016456.2	465	atccgaaaagccggatgcataatc	284894	-	see also 6866 line
42686	TMEM9	NM_016456.2	466	tccgaaaagccggatgcataatc	284895	-	see also 6866 line
42687	TMEPAI	NM_020182.3	941	tgcgcgacccccaacacgaacc	284897	-	see also 18848 line
42688	TPARL	NM_018475.2	651	aacgggtacacagcataacagtcac	284910	-	see also 18849 line
42689	TPARL	NM_018475.2	837	gtgcacgggattggcagtaattg	284919	-	see also 18849 line
42690	TPD52L1	NM_003287.1	676	ggcgggtacgaaccctaatggagg	284935	-	see also 18850 line
42691	TPD52L1	NM_003287.1	571	tccattgcattccataagtat	284934	-	see also 18850 line
42692	TPD52L1	NM_003287.1	354	agcgaaaagaaaggcatctagtgc	284927	-	see also 18850 line
42693	TSGA10	NM_025244.1	900	aacaacggcacatgctattctoc	284948	-	see also 18851 line
42694	TSGA10	NM_025244.1	854	ccgaccttcgcgcgagaatgatg	284944	-	see also 18851 line
42695	TU3A	NM_007177.1	1032	agggaaaacctcggaggaattgc	285009	-	see also 18852 line
42696	TXNIP	NM_006472.1	1023	aacatccttccagtggaatttc	285023	-	see also 18853 line
42697	TXNIP	NM_006472.1	1340	gccaccacgacttatatactagg	285034	-	see also 18853 line
42698	TXNIP	NM_006472.1	1335	ttcatgcccacacgcgaattatc	285032	-	see also 18853 line
42699	UACA	NM_018003.1	663	tgcctaggttcgaatatgtgttc	285053	-	see also 18854 line
42700	UACA	NM_018003.1	221	ggggcactccagcacaactaga	285039	-	see also 18854 line
42701	USP6NL	NM_014688.1	2358	ggcgtctagtcgaatagaagtcoc	285184	-	see also 18855 line
42702	USP6NL	NM_014688.1	2630	gtccogtgaatataaagcttca	285191	-	see also 18855 line
42703	UXT	NM_004182.2	239	agctaagcactcggaggttata	285197	-	see also 18856 line
42704	UXT	NM_004182.2	165	gaccatcggacaaaggatataga	285195	-	see also 18856 line
42705	VGX-2r	NM_016378.1	399	ctgtgtggatggccagcttttc	285201	-	molecular_function unknown
42706	VMD2	NM_004183.1	763	tgcctcagactggattgatctc	285207	-	see also 18857 line
42707	VMD2	NM_004183.1	179	ctgctatatggcgaggttttaat	285202	-	see also 18857 line
42708	VMD2L1	NM_017682.1	432	aggagcgcaagaaggttgaatac	285224	-	see also 18858 line

図46 (続き)

1152

42709	VMD2L1	NM_017682.1	564	tgctcagaggagctgaattgtttt	285227	-	see also 18858 line
42710	VMD2L2	NM_153274.1	594	cgagcgaatactgacgatctcg	285235	-	see also 18859 line
42711	VMD2L2	NM_153274.1	1001	tgctaccgctggacgaatactac	285238	-	see also 18859 line
42712	VMD2L3	NM_152439.1	745	atcggcattccatgaagaaga	285250	-	see also 18860 line
42713	VMD2L3	NM_152439.1	427	ttggattccgctggtttacacc	285243	-	see also 18860 line
42714	WBSOR5	NM_014146.2	569	tgccaattccctacagaattgc	285255	-	-
42715	WDR6	NM_018031.2	2544	ttctccaccggctagatgagt	285278	-	see also 18861 line
42716	WDR6	NM_018031.2	2549	ccacccggctagatgattgg	285281	-	see also 18861 line
42717	WDFC1	NM_021197.2	296	ctcggaggctggccgagaaatcc	285287	-	see also 18862 line
42718	WDFC1	NM_021197.2	678	agctgaactggtccggaagtatcc	285288	-	see also 18862 line
42719	WIT-1	NM_015855.2	1022	ggcctgaagggtgcataattatt	285296	-	see also 18863 line
42720	WIT-1	NM_015855.2	982	accatgtggcgttgatacactgg	285293	-	see also 18863 line
42721	WIT-1	NM_015855.2	1023	gcctgaagggtgcataattatt	285297	-	see also 18863 line
42722	WSB1	NM_015626.7	1248	accggtgggtacagctctgtatct	285327	-	see also 18864 line
42723	WSB1	NM_015626.7	1252	gtgggtacagctctgtatctttta	285329	-	see also 18864 line
42724	WSB1	NM_015626.7	1247	gaccggtgggtacagctctgtatct	285326	-	see also 18864 line
42725	XG	NM_175569.1	375	tcgccacacgggtggaatatct	285344	-	see also 18865 line
42726	XG	NM_175569.1	374	atccgcacacgggtggaatatct	285343	-	see also 18865 line
42727	YIF1	NM_020470.1	826	ctcatcggcgctcatgacttca	285353	-	see also 18866 line
42728	YIF1	NM_020470.1	729	tgccctacagtggtgctacaatac	285351	-	see also 18866 line
42729	ZNF200	NM_003454.2	1973	ttggtcggctgtcaactgtatcc	285372	-	see also 18867 line
42730	ZNF200	NM_003454.2	1296	cartgtcgggaaatgaattac	285359	-	see also 18868 line
42731	ZP4	NM_021186.2	147	aacgtctctctctactaatag	285374	-	see also 18868 line
42732	ZP4	NM_021186.2	497	ggctaggctgtgttatagctct	285382	-	see also 18868 line
42733	AGS3	NM_015597.2	1563	ctgcgccacagccggggaattct	285409	-	see also 18869 line
42734	AGS3	NM_015597.2	572	acctgggcaacacccactatttg	285405	-	see also 18869 line
42735	C15orf15	NM_016304.2	185	tcctggacacggcgatggttcg	285413	-	-
42736	C15orf15	NM_016304.2	184	atcctggacacggcgatggttc	285412	-	-
42737	C1orf33	NM_016183.2	401	tacgcccggcgctggttaacaagc	285421	-	see also 42735 line
42738	C1orf33	NM_016183.2	610	tggttatgagatggctgaattca	285422	-	see also 18870 line
42739	DAP3	NM_004632.2	451	tgcttaccagctatcacatctc	285437	-	see also 18870 line
42740	DAP3	NM_004632.2	460	agctacagatatctctgtatg	285439	-	see also 3147 line
42741	FLJ12331	NM_024986.1	231	ctctggcgtagtacacctatcc	285458	-	see also 18872 line
42742	FLJ12331	NM_024986.1	536	agcataagctttcattacaagaat	285459	-	see also 18872 line
42743	GADD45B	NM_015675.1	222	acgagtcggcgaagtgtatgaat	285468	-	see also 18874 line
42744	GADD45B	NM_015675.1	226	gtcgcccaagttgatgaattgg	285470	-	see also 18874 line
42745	GADD45G	NM_006705.2	323	atcgccgtgcagatccattttac	285474	-	see also 18875 line
42746	GADD45G	NM_006705.2	324	tcgcctgcagatccattttacg	285475	-	see also 18875 line
42747	LACTB	NM_032857.2	487	aaccgtgtacatgttaaaccca	285479	-	see also 9314 line
42748	LACTB	NM_032857.2	1129	aacggagcagtgatttacaatag	285496	-	see also 9314 line
42749	MGC9651	NM_152301.3	545	agctcgtctggcgaatagagaga	285509	-	see also 18877 line
42750	MRP63	NM_024026.3	342	atctcaatgtgcacccaagaattg	285511	-	-
42751	MRP63	NM_024026.3	333	agctcgacattctcaattgtcacc	285510	-	see also 42750 line
42752	MRPL11	NM_016050.2	276	tgccctaacagatttttagtgag	285513	-	see also 18878 line

1153

図 46 (続き)

42753	MRPL11	NM_016050.2	277	gcctaccagatttagtaagc	285514	-	see also 18878 line
42754	MRPL13	NM_014078.4	766	acctaaacgtctagatgagaca	285533	-	see also 18879 line
42755	MRPL13	NM_014078.4	557	ggctaccacaggtgatttagaca	285527	-	see also 18879 line
42756	MRPL14	NM_032111.1	480	agcgggaagggcaggtattccaag	285540	-	see also 18880 line
42757	MRPL14	NM_032111.1	432	acctgtggggacacaggaataag	285537	-	see also 18880 line
42758	MRPL15	NM_014175.2	297	cccaataacagggttaacagaag	285545	-	see also 18881 line
42759	MRPL15	NM_014175.2	395	atctagtcacacttagtactta	285548	-	see also 18881 line
42760	MRPL15	NM_014175.2	396	tcttagtcaaccttagtacttaa	285549	-	see also 18881 line
42761	MRPL16	NM_017840.2	252	tgcgggtccctgtcagattcc	285569	-	see also 18882 line
42762	MRPL16	NM_017840.2	701	atgggtggcgtgtggaattga	285576	-	see also 18882 line
42763	MRPL17	NM_022061.2	328	ccctcgggtacaaagataaact	285583	-	see also 18883 line
42764	MRPL17	NM_022061.2	326	ggccctcgggtacaaagataaaa	285581	-	see also 18883 line
42765	MRPL18	NM_014161.2	588	gactcgtggaacacactacaaaag	285598	-	see also 18884 line
42766	MRPL18	NM_014161.2	440	cactcgtgagtgaggctattaaa	285593	-	see also 18884 line
42767	MRPL19	NM_014763.2	231	aaccgggaacgcaggcttctgagt	285601	-	see also 18885 line
42768	MRPL19	NM_014763.2	567	ggctggatgatagcttgctatc	285613	-	see also 18885 line
42769	MRPL2	NM_015950.2	334	gccacaagcaacgttatogaatg	285637	-	see also 18886 line
42770	MRPL2	NM_015950.2	773	ccgagtatcccaacgttgatcata	285642	-	see also 18886 line
42771	MRPL22	NM_014180.2	47	cagtggtgctggttagtgatata	285649	-	see also 18887 line
42772	MRPL22	NM_014180.2	45	gacagtggtgctggttagtgata	285648	-	see also 18887 line
42773	MRPL24	NM_024540.2	580	caacagtaacaggagaattatcc	285675	-	see also 18888 line
42774	MRPL24	NM_024540.2	767	tacaagaaggctattggtattg	285678	-	see also 18888 line
42775	MRPL27	NM_016504.2	175	cagacccaagccattaaagaaa	285682	-	see also 18889 line
42776	MRPL27	NM_016504.2	133	gtcgggtggttagctccaaaacc	285681	-	see also 18889 line
42777	MRPL30	NM_016503.2	168	tgggatttgcgttagtagttc	285689	-	see also 18890 line
42778	MRPL30	NM_016503.2	169	gggatttgcgttagtagttca	285690	-	see also 18890 line
42779	MRPL32	NM_031903.1	96	ggggggtgcttcgaactactgg	285706	-	see also 18891 line
42780	MRPL32	NM_031903.1	250	ttccagcctttggacagatctc	285710	-	see also 18891 line
42781	MRPL33	NM_004891.2	215	aagagtcctctcgttggaaga	285722	-	see also 18891 line
42782	MRPL35	NM_016622.2	301	ggcagtcagatctctaacatact	285735	-	see also 18892 line
42783	MRPL35	NM_016622.2	157	gtccactggacgttttagtcata	285725	-	see also 18892 line
42784	MRPL35	NM_016622.2	459	agcgttagaggggaattgtattc	285738	-	see also 18892 line
42785	MRPL36	NM_032479.2	311	togggtgtagctactacttaaaa	285760	-	see also 18893 line
42786	MRPL36	NM_032479.2	310	gtcgggtgtagctactactgtaa	285749	-	see also 18893 line
42787	MRPL36	NM_032479.2	312	cgggtgtagctactactgtaaac	285751	-	see also 18893 line
42788	MRPL37	NM_016491.2	357	cagggcctcctcgtgtacaaaga	285762	-	see also 18894 line
42789	MRPL37	NM_016491.2	610	caggtcctcgtggacaacctata	285761	-	see also 18894 line
42790	MRPL4	NM_015956.2	761	ccccacaagtactactactatgc	285781	-	see also 18895 line
42791	MRPL4	NM_015956.2	587	tactatggcagaagaacttca	285780	-	see also 18895 line
42792	MRPL42	NM_014050.2	157	tggctgtagctgcagtaaaatgg	285785	-	see also 18897 line
42793	MRPL42	NM_014050.2	265	ctcctctacacagatgactataat	285789	-	see also 18897 line
42794	MRPL43	NM_032112.2	240	acgggaatccaggggtcgtaatat	285793	-	see also 18898 line
42795	MRPL43	NM_032112.2	246	tccaggggtcgttaatatgtaa	285795	-	see also 18898 line
42796	MRPL46	NM_022163.2	354	ttgctggcgcagatttggaga	285808	-	see also 18899 line

1154

図46 (続き)

42797	MRPL46	NM_022163.2	358	tggcgcaagatttggagatatg	285809	-	see also 18899 line
42798	MRPL47	NM_020409.2	403	aagtcagagcggtagataaagg	285831	-	see also 18900 line
42799	MRPL47	NM_020409.2	406	tcacagagcggtagataaaggtag	285832	-	see also 18900 line
42800	MRPL48	NM_016055.3	446	caaccacggcattggaagataca	285852	-	see also 6645 line
42801	MRPL48	NM_016055.3	568	ttcatctgactgcatatgatag	285857	-	see also 6645 line
42802	MRPL50	NM_019051.1	225	gtcgttggaaatttaacttaaa	285869	-	see also 18902 line
42803	MRPL50	NM_019051.1	417	tcctattcaagatagatctaaa	285884	-	see also 18902 line
42804	MRPL51	NM_016497.2	520	accgacatgggaagtttcgcatag	285888	-	-
42805	MRPL51	NM_016497.2	333	atcgggactctgggaacatttga	285886	-	see also 42804 line
42806	MRPL51	NM_016497.2	425	ttgtatctcgaaagaggaaatgg	285887	-	see also 42804 line
42807	MRPL9	NM_031420.2	306	accggcgacatcgctctataag	285889	-	see also 18903 line
42808	MRPL9	NM_031420.2	310	ggacacatcgctctataagctgg	285891	-	see also 18903 line
42809	MRPS11	NM_022839.2	670	agcggcgagagcctaacaagaagg	285912	-	see also 8491 line
42810	MRPS11	NM_022839.2	394	tggcgcaagcagaagaattgaac	285907	-	see also 8491 line
42811	MRPS12	NM_021107.1	369	ctcaacacgtccctaaacttggg	285916	-	-
42812	MRPS12	NM_021107.1	367	gcctaacacgtccctaaacttgt	285915	-	see also 42811 line
42813	MRPS14	NM_022100.1	329	gggcttagctgctatagttctcc	285929	-	see also 18904 line
42814	MRPS14	NM_022100.1	158	cgcatgatggagggctacgtatta	285920	-	see also 18904 line
42815	MRPS15	NM_031280.2	598	aactctcgttaacccaactatga	285936	-	see also 18905 line
42816	MRPS15	NM_031280.2	333	tgggaattgagaaggttgatg	285934	-	see also 18905 line
42817	MRPS16	NM_016065.2	293	cccaggatggccggttcgtaga	285942	-	structural constituent of ribosome
42818	MRPS16	NM_016065.2	380	ggacagatctcgtcattgatttgg	285943	-	-
42819	MRPS16	NM_016065.2	513	caagtgaagctctgtagcttct	285948	-	see also 42817 line
42820	MRPS17	NM_015969.2	49	tcgtccatgcagatggattgt	285949	-	see also 18906 line
42821	MRPS17	NM_015969.2	243	tcacagagcaagcagatggaac	285952	-	see also 18906 line
42822	MRPS18A	NM_018135.2	380	accgagcaggtctattaccaaat	285959	-	see also 18907 line
42823	MRPS18A	NM_018135.2	379	caccggagcaggtctattaccaaa	285958	-	see also 18907 line
42824	MRPS18B	NM_014046.2	418	ctgcgccacacaggggtatcatct	285972	-	see also 18908 line
42825	MRPS18B	NM_014046.2	313	gacatgtattcgtcggaataaag	285969	-	see also 18908 line
42826	MRPS18C	NM_016067.1	207	ctgcgccattcaatggaataac	285977	-	-
42827	MRPS2	NM_016034.2	288	tggctgtcggcacaggtttatgg	285983	-	see also 18909 line
42828	MRPS2	NM_016034.2	169	accgatttcaacgacaagatttt	285979	-	see also 18909 line
42829	MRPS21	NM_018997.1	637	agcatcggcggttatattgagaag	285989	-	see also 18910 line
42830	MRPS21	NM_018997.1	724	ctcgcaagatcaactcttggatg	285992	-	see also 18910 line
42831	MRPS21	NM_018997.1	608	cactatgatggcctcattggagg	285986	-	see also 18910 line
42832	MRPS23	NM_016070.2	221	taccacagagatcgagattagagc	285986	-	see also 18911 line
42833	MRPS23	NM_016070.2	238	tagagcgaagttttatcagttg	285989	-	see also 18911 line
42834	MRPS23	NM_016070.2	113	ccctgtggtttgacgtataga	285995	-	see also 18911 line
42835	MRPS25	NM_022497.3	144	ggccgacccctgcaatatctgagc	286003	-	see also 18912 line
42836	MRPS25	NM_022497.3	339	tcctgcgattctacttagattct	286009	-	see also 18912 line
42837	MRPS27	NM_015084.1	1000	aacgatttaagccttcaattct	286029	-	see also 18914 line
42838	MRPS27	NM_015084.1	223	cacggttatagacaacatttcc	286019	-	see also 18914 line

1155

図46 (続き)

42839	MRPS31	NM_005830.2	947	aactatggaggttcccaataac	286047	-	see also 18915 line
42840	MRPS31	NM_005830.2	599	atgcaagcgcactcaataatgt	286041	-	see also 18915 line
42841	MRPS31	NM_005830.2	893	aacaaccccttcagatggattt	286046	-	see also 18915 line
42842	MRPS33	NM_016071.2	274	aaggagacttatgattggtatcc	286058	-	see also 18916 line
42843	MRPS33	NM_016071.2	209	ggcctactaattccaaagtctatg	286056	-	see also 18916 line
42844	MRPS34	NM_023936.1	620	ctgggatttaacctgcaaaacagg	286061	-	see also 18917 line
42845	MRPS35	NM_021821.2	541	aaccacagcgcagagtagtagt	286071	-	see also 18918 line
42846	MRPS35	NM_021821.2	543	ccccagagcacgtagtagtctt	286072	-	see also 18918 line
42847	MRPS36	NM_033281.4	116	gtcaaacacacactccattaat	286090	-	-
42848	MRPS36	NM_033281.4	163	tcttaaacccatgtatcagaag	286093	-	see also 42847 line
42849	MRPS36	NM_033281.4	277	tccacggacactgcagaaataa	286095	-	see also 42847 line
42850	MRPS5	NM_031902.3	619	aaggcgcttatggttttctatgg	286108	-	see also 18919 line
42851	MRPS5	NM_031902.3	1222	aggtctctggtccattaatatg	286121	-	see also 18919 line
42852	MRPS6	NM_032476.2	183	ccgctacagcgtgcgtthaatc	286125	-	see also 18920 line
42853	MRPS7	NM_015971.2	296	ggcgtctatgctcgtgaattcaag	286129	-	see also 6590 line
42854	MRPS7	NM_015971.2	297	cgcgtatgctcgaattcaagg	286130	-	see also 6590 line
42855	NOLA2	NM_017838.2	213	ctcacgcgggaagctctacaatg	286138	-	see also 18922 line
42856	RPL10L	NM_080746.2	328	gtggcagagatgctttcacatg	286141	-	see also 18923 line
42857	RPL10L	NM_080746.2	306	aacaatacatggtgaagaattg	286140	-	see also 18923 line
42858	RPS27L	NM_015920.2	140	gctagtacaaagtcacaaattct	286147	-	see also 18925 line
42859	RPS27L	NM_015920.2	182	gtcaggtgtctacaagatcaccc	286148	-	see also 18925 line
42860	UBA52	NM_003333.2	283	tccgccagcttgcgcgaataac	286156	-	see also 18926 line
42861	UBA52	NM_003333.2	251	ggcgtcgcagagtggtgcatattg	286154	-	see also 18926 line
42862	76P	NM_014444.2	377	ggcgtcgtcgcgcagacactatatt	286159	-	see also 5676 line
42863	76P	NM_014444.2	376	tgcgcgtcgcgcacagactatat	286158	-	see also 5676 line
42864	ACTA1	NM_001100.2	587	accacacagctgcccaattatga	286206	-	transcription co-repressor
42865	ACTA2	NM_001613.1	797	caccatcggaataatgaacgtttcc	286210	-	see also 18928 line
42866	ACTA2	NM_001613.1	642	ggctattctctgttactactgc	286208	-	see also 18928 line
42867	ACTC	NM_005159.2	157	gactctactgtagtgatgaagc	286211	-	see also 3626 line
42868	ACTC	NM_005159.2	442	ggcctacacacagcattggtct	286212	-	see also 3626 line
42869	ACTG2	NM_001615.2	945	gacatcgttaaggacttatatgc	286224	-	see also 18930 line
42870	ACTG2	NM_001615.2	885	ggcatgagtcctcgtgaattca	286222	-	see also 18930 line
42871	ACTL7A	NM_006687.2	682	cccatctacgaggttatctttt	286234	-	see also 4721 line
42872	ACTL7A	NM_006687.2	227	tggcactgtgctactgttaattgt	286227	-	see also 4721 line
42873	ACTL7B	NM_006686.2	273	caccgcgaagtcgacttttagtgg	286242	-	see also 18932 line
42874	ACTL7B	NM_006686.2	853	gacgcgaactcatcactatgg	286246	-	see also 18932 line
42875	ACTL7B	NM_006686.2	271	gacacccacagtgagacttttgt	286241	-	see also 18932 line
42876	ACTR10	NM_018477.1	339	cgccgagttgtattatgaatc	286257	-	see also 7492 line
42877	ACTR10	NM_018477.1	340	ggcgcagttgtattatgaatc	286258	-	see also 7492 line
42878	ACTR1A	NM_005736.2	422	aacgagctgcgaagttttcttc	286302	-	see also 3980 line
42879	ACTR1A	NM_005736.2	929	ggcgcagcttttctctaacatt	286310	-	see also 3980 line
42880	ACTR1B	NM_005735.2	368	ccccgcttaacccgagtaagaac	286321	-	see also 18935 line
42881	ACTR1B	NM_005735.2	369	cccgctaacccgagtaagaacc	286322	-	see also 18935 line

図46 (続き)

1157

42924	GFAP	NM_002055.2	777	gagtgtaccgctccaaagtttgc	287339	-	see also 18955 line		
42925	GFAP	NM_002055.2	595	aggagagatccggttcttgagg	287338	-	see also 18955 line		
42926	INA	NM_032727.2	1251	aaggcagagagacacagttttagc	287342	-	see also 18956 line		
42927	INA	NM_032727.2	1419	aggtagcctctaagaacacctcc	287350	-	see also 18956 line		
42928	KRT1	NM_006121.2	697	aggtagatccctccactagaacc	287354	-	see also 18957 line		
42929	KRT1	NM_006121.2	1265	gagacttagatctgaatagaca	287371	-	see also 18957 line		
42930	KRT13	NM_002274.2	559	atctgacccgccaccattgaaa	287375	-	see also 18958 line		
42931	KRT13	NM_002274.2	205	ggcgtgagctgtgtttgttgg	287374	-	see also 18958 line		
42932	KRT15	NM_002275.2	1358	agcagcaattccacatacatgt	287381	-		structural constituent of cytoskeleton	-
42933	KRT20	NM_019010.1	383	gtcggactacagtcacattac	287388	-	see also 18959 line		
42934	KRT20	NM_019010.1	459	tcgggtgtctctgcaattgata	287392	-	see also 18959 line		
42935	KRT2A	NM_000423.1	583	gagcgtgagcagatcaaaactct	287415	-	see also 18960 line		
42936	KRT2A	NM_000423.1	534	gcctctcaacgtgaaagtggacc	287414	-	see also 18960 line		
42937	KRT5	NM_000424.2	1349	ctgagagccgagagattgacaatgt	287427	-	see also 18961 line		
42938	KRT6A	NM_005554.2	528	ggctgagagcgtgaacagatca	287429	-		structural constituent of cytoskeleton	breast cancer(乳癌)、pachyonychia congenita(先天性爪硬化症)
42939	KRT9	NM_000226.1	1332	cactgacgtccggcagagatcg	287445	-	see also 18962 line		
42940	KRT9	NM_000226.1	365	ctggaggaggctatagttct	287431	-	see also 18962 line		
42941	KRTHA1	NM_002277.2	356	cagttacagctctatttaaga	287448	-		structural constituent of cytoskeleton	-
42942	LOC81569	NM_030812.1	1085	ccctctatccgggttcacaaag	287457	-	see also 18963 line		
42943	LOC81569	NM_030812.1	501	gcctcggaacccgaagaagatgc	287452	-	see also 18963 line		
42944	LOR	NM_000427.1	282	ctcgggtggagcgtcaagtact	287463	-	see also 18964 line		
42945	MSN	NM_002444.1	1806	agcgattgacgaatttgatct	287504	-	see also 1580 line		
42946	MSN	NM_002444.1	478	ctcgatgctgtccagctaaagt	287493	-	see also 1580 line		
42947	NEF3	NM_005382.1	762	cacggtagagcgcgaagactacc	287507	-	see also 18966 line		
42948	NEF3	NM_005382.1	1276	caccgaccccccaatcacatc	287514	-	see also 18966 line		
42949	NEFL	NM_006158.1	646	agcttgatgagcgaatctcttt	287525	-	see also 18967 line		
42950	NEFL	NM_006158.1	1096	atggcacgataccttaaaagaata	287532	-	see also 18967 line		
42951	PPL	NM_002705.2	3481	agcgatctcccccgaataga	287545	-	see also 18968 line		
42952	PPL	NM_002705.2	1750	aacggactctcgggattgaacc	287536	-	see also 18968 line		
42953	PPL	NM_002705.2	3869	gactgatgaagaggttgattta	287548	-	see also 18968 line		
42954	SCAM-1	NM_005775.2	2119	ttcggaaacgttccttggaatta	287568	-	see also 18969 line		
42955	SCAM-1	NM_005775.2	753	acctagaagccactcaactaca	287559	-	see also 18969 line		
42956	VIM	NM_003380.1	1447	tcctgattaagcgggtgaaact	287581	-	see also 18970 line		
42957	VIM	NM_003380.1	1419	ctggttgatacccaactcaaaag	287579	-	see also 18970 line		
42958	ELN	NM_000501.1	241	gccttccccgcagttaccttcc	287588	-		extracellular matrix structural constituent	atherosclerosis(粥状硬化症)、hypercalcemia(高カルシウム血症)、supravalvular aortic stenosis(大動脈弁上狭窄)、Williams-Beuren syndrome(ウィリアムス症候群)

図46 (続き)

1158

42959	ELN	NM_000501.1	240	cgcttccccgagttacatttc	287587	-	see also 42958 line
42960	ELN	NM_000501.1	850	ggcgtgctgctggggaattcctgg	287589	-	see also 42958 line
42961	COL11A2	NM_080679.1	2328	ccaaaggaggtccctagattttcc	287596	-	see also 18971 line
42962	COL11A2	NM_080679.1	4930	cggagagtagccctctgttcaaa	287600	-	see also 18971 line
42963	BGN	NM_001711.3	525	ccctgctcctggtgaacaacaag	287618	-	see also 1139 line
42964	BGN	NM_001711.3	258	tggacagatggccatcatgatg	287616	-	see also 1139 line
42965	CHAD	NM_001267.1	953	caogctgaacacgctccattgg	287624	-	see also 18973 line
42966	CHAD	NM_001267.1	439	ggctcaagcaacttatctacttg	287623	-	see also 18973 line
42967	COL10A1	NM_000493.2	228	tcctctacaccataaagataaag	287627	-	see also 386 line
42968	COL11A1	NM_001854.2	3241	accggtagagactggtccaatagg	287683	-	see also 1198 line
42969	COL11A1	NM_001854.2	1781	ctctgtactatgttattgtta	287676	-	see also 1198 line
42970	COL12A1	NM_004370.4	4758	ctgcacagacctcactagtgaacc	287813	-	see also 2929 line
42971	COL12A1	NM_004370.4	4339	ctgcagagtgtagcgtatataag	287803	-	see also 2929 line
42972	COL15A1	NM_001855.2	4269	ctgtgctaattcggttaattgtcc	287960	-	see also 18977 line
42973	COL15A1	NM_001855.2	3910	acctaccgagcattcttatttc	287945	-	see also 18977 line
42974	COL16A1	NM_001856.2	2503	ggcgtgggcccgcactgtgtaacc	287976	-	see also 1199 line
42975	COL16A1	NM_001856.2	298	ttcgcccatggggcaaatacagg	287966	-	see also 1199 line
42976	COL18A1	NM_030582.2	3789	ccacagaggagcggacaattgaag	288000	-	see also 18979 line
42977	COL18A1	NM_030582.2	1036	gtgcgccagtggacacacttagc	287994	-	see also 18979 line
42978	COL18A1	NM_030582.2	3111	tcacgggactcctgtttacagaca	287997	-	see also 18979 line
42979	COL19A1	NM_001858.2	1654	cccgagaccctcgtgttttaagg	288029	-	see also 1201 line
42980	COL19A1	NM_001858.2	1051	ggacggggtgaatatgttttaca	288024	-	see also 1201 line
42981	COL1A1	NM_000088.2	3759	cgctactaccgggctgtagatgc	288050	-	see also 18981 line
42982	COL1A1	NM_000088.2	227	accaatcacctcgctacagacag	288046	-	see also 18981 line
42983	COL1A2	NM_000089.2	2979	cgcggttaccctggccaattatgg	288084	-	see also 67 line
42984	COL1A2	NM_000089.2	3467	tggtagctgagagacttctaca	288066	-	see also 67 line
42985	COL2A1	NM_001844.3	1376	tcggtaaccctgggaacagatgg	288114	-	see also 18984 line
42986	COL2A1	NM_001844.3	4419	tcggggcagaggccaatagcagg	288119	-	see also 18984 line
42987	COL3A1	NM_000090.2	3756	tggcggttttgcccgctattatg	288136	-	see also 18985 line
42988	COL3A1	NM_000090.2	3757	ggcggttttgcccgctattatgg	288137	-	see also 18985 line
42989	COL3A1	NM_000090.2	3879	togtaaaaaccocgctagaaact	288141	-	see also 18985 line
42990	COL4A1	NM_001845.2	1048	ccggggtaccagggactcatagg	288153	-	see also 18986 line
42991	COL4A1	NM_001845.2	4858	ctgtggatcggctactcttttgt	288178	-	see also 18986 line
42992	COL4A1	NM_001845.2	4860	gtggatcggctactcttttgtga	288179	-	see also 18986 line
42993	COL4A2	NM_001846.1	3562	ggatcgggggacacataaaattt	288199	-	see also 18987 line
42994	COL4A2	NM_001846.1	5244	cacacattcatagaatgaatg	288204	-	see also 18987 line
42995	COL4A4	NM_000092.2	719	tccctgtgtactattactatc	288209	-	see also 18988 line
42996	COL4A4	NM_000092.2	5117	gactgggtatagctgtttatcc	288233	-	see also 18988 line
42997	COL4A5	NM_000495.3	224	ctggctcgcggctgttttact	288244	-	see also 388 line
42998	COL4A5	NM_000495.3	226	ggctcgcggctgttttact	288245	-	see also 388 line
42999	COL4A6	NM_001847.1	317	tactggttatcgggattgaag	288276	-	see also 1195 line
43000	COL4A6	NM_001847.1	3668	tggcactccagagccttagtaca	288307	-	see also 1195 line
43001	COL5A2	NM_000393.2	3997	cagcccgatggctcgaaaaagc	288341	-	see also 315 line
43002	COL5A2	NM_000393.2	3455	ccgggtctcggggctctatagg	288336	-	see also 315 line

図46 (続き)

1159

43003	COL5A3	NM_015719.2	3336	ccggagacacaaagggagtgtaaagg	288363	-	see also 18992 line
43004	COL5A3	NM_015719.2	5192	gacgaagacccttttcgaattca	288375	-	see also 18992 line
43005	COL6A2	NM_001849.2	2284	tcggagacgatgacctcaactgc	288386	-	see also 18993 line
43006	COL6A2	NM_001849.2	160	cactaccgagagaaacaacaact	288392	-	see also 18993 line
43007	COL6A3	NM_004369.1	7517	tgcgagatgtggtcttgatgatt	288513	-	see also 18994 line
43008	COL6A3	NM_004369.1	7364	ggggcgagctccatgatcaatgt	288510	-	see also 18994 line
43009	COL7A1	NM_000094.2	1420	ccgctggctacccggttggaatgg	288550	-	see also 18995 line
43010	COL7A1	NM_000094.2	195	cgctttacccgctgacatgtt	288541	-	see also 18995 line
43011	COL7A1	NM_000094.2	2999	ctcgatgactcgggtgactttgg	288555	-	see also 18995 line
43012	COL8A1	NM_001850.3	2306	cacgtacacgagtgacaaaaagg	288588	-	see also 18996 line
43013	COL8A1	NM_001850.3	2304	tacacgtacacgagtgacaaaaa	288587	-	see also 18996 line
43014	COL8A1	NM_001850.3	496	cacacctaccaccaatatatgaag	288572	-	see also 18996 line
43015	COL9A1	NM_001851.2	2414	accgacagtgatcagcacattatgc	288619	-	see also 1197 line
43016	COL9A1	NM_001851.2	2875	ctggtcagcgagcatttaacaaa	288623	-	see also 1197 line
43017	COL9A2	NM_001852.3	128	ctcgctctggcgagattagagg	288626	-	see also 18998 line
43018	COL9A2	NM_001852.3	126	tgctgcctctggcgagattatga	288625	-	see also 18998 line
43019	COL9A2	NM_001852.3	308	ccgggattgatgttttaactgg	288628	-	see also 18998 line
43020	COL9A3	NM_001853.2	1621	gggatgatcagcgaacaaattgc	288634	-	see also 18999 line
43021	COL9A3	NM_001853.2	1610	agctgtctgggggagtgatcagc	288632	-	see also 18999 line
43022	KAL1	NM_000216.1	1071	gagtgtagccgtcaactatagttt	288651	-	see also 19000 line
43023	KAL1	NM_000216.1	1509	cactgtcaacogatatcatgtgc	288663	-	see also 19000 line
43024	LAMA4	NM_002290.2	1891	acctgtataactcttccagAAC	288725	-	see also 19001 line
43025	LAMA4	NM_002290.2	784	aagatgtgctccgggttactatg	288700	-	see also 19001 line
43026	LUM	NM_002345.2	832	ttgcagtatctgcgtttatctoa	288858	-	see also 19002 line
43027	LUM	NM_002345.2	144	gagtcataagtgacttactctct	288839	-	see also 19002 line
43028	MAGP2	NM_003480.1	543	caccagtttacgacgagtgtaca	288872	-	see also 19003 line
43029	MAGP2	NM_003480.1	660	gagactcogtcgtccaatct	288877	-	see also 19003 line
43030	MATN1	NM_002379.2	1688	aagactcggctttaaagtgttt	288891	-	see also 1532 line
43031	MATN1	NM_002379.2	1690	gacctcggctttaaagtgtttgc	288892	-	see also 1532 line
43032	MATN3	NM_002381.2	600	ggctcgagagccctcttctaaca	288898	-	see also 19005 line
43033	MATN3	NM_002381.2	1429	gacaagggtcagctcgttatctca	288915	-	see also 19005 line
43034	MEPE	NM_020203.1	761	ggcagcgttatcacagattctca	288952	-	see also 19006 line
43035	MEPE	NM_020203.1	817	tgggagcggccaaaccttttaagg	288955	-	see also 19006 line
43036	MFAP1	NM_005926.1	415	ggagattggctcgacatcgaaaaa	288984	-	see also 19007 line
43037	MFAP1	NM_005926.1	421	ggctcgacatcgaaaaataagtgg	288986	-	see also 19007 line
43038	MFAP1	NM_005926.1	419	ttggctcgacatcgaaaaataagt	288985	-	see also 19007 line
43039	MFAP2	NM_002403.2	476	tcggcgggtgtacgtcatatgaac	289011	-	see also 19008 line
43040	MFAP2	NM_002403.2	223	atcgacacaccagactactatga	289006	-	see also 19008 line
43041	MFAP3	NM_005927.3	849	ttcgtcacctctccaattcgtgc	289028	-	see also 19009 line
43042	MFAP3	NM_005927.3	880	ctgtcacctcactgattatcttc	289030	-	see also 19009 line
43043	OPTC	NM_014359.2	524	ctctgtatttgatgacattg	289059	-	see also 19010 line
43044	OPTC	NM_014359.2	678	ctcatttcctccatgatgaatga	289063	-	see also 19010 line
43045	OPTC	NM_014359.2	291	gtcatgtgacctgagcaactatga	289055	-	see also 19010 line
43046	PRELP	NM_002725.2	883	gaccatccctaacggatattctca	289072	-	see also 19011 line

図46 (続き)

1160

43047	PRELP	NM_002725.2	922	tgcttcaattgcgttaactaca	289075	-	see also 19011 line
43048	TECTA	NM_005422.1	4355	tcgctgcaaatgattgaattgc	289143	-	see also 3787 line
43049	TECTA	NM_005422.1	678	aaccccgagatcgtaatacc	289100	-	see also 3787 line
43050	TFPI2	NM_006528.2	464	gtcaacggaacaggatgagaac	289210	-	see also 19013 line
43051	TFPI2	NM_006528.2	580	gccaatgtgactgcattattt	289213	-	see also 19013 line
43052	TFPI2	NM_006528.2	579	tgccaatgtgactgcattattt	289212	-	see also 19013 line
43053	TNR	NM_003285.1	2158	tactaccgagatcatatgacc	289262	-	see also 2220 line
43054	TNR	NM_003285.1	2222	accactaccgaattacattacc	289245	-	see also 2220 line
43055	MYBPH	NM_004997.1	1129	tgccaaacctaaagggtttattg	289292	-	see also 3492 line
43056	MYBPH	NM_004997.1	116	ccggagaaagtggcagttacaga	289289	-	see also 3492 line
43057	MYOM1	NM_003803.1	1429	ttgatcgaagtgttctctatat	289329	-	see also 2600 line
43058	MYOM1	NM_003803.1	2329	aactatcggaggctcattgagg	289344	-	see also 2600 line
43059	MYOM2	NM_003970.1	1749	cccgagatatccggtttgacc	289418	-	see also 19017 line
43060	MYOM2	NM_003970.1	1939	cagtgggaccgacctaaagcatga	289421	-	see also 19017 line
43061	TTID	NM_006790.1	1641	tacgggttcaccaaacattcagg	289503	-	see also 4781 line
43062	TTID	NM_006790.1	1454	aacactgaccgaataaagcttata	289497	-	see also 4781 line
43063	TTID	NM_006790.1	620	tcgctatggtattccaactatca	289473	-	see also 4781 line
43064	CRYAA	NM_000394.2	151	ggcgggggccccttttgataga	289511	-	see also 316 line
43065	CRYAA	NM_000394.2	149	tcggcgaggggccccttttgatga	289509	-	see also 316 line
43066	CRYAB	NM_001885.1	408	tagaacctctcaaccattactcca	289517	-	see also 1208 line
43067	CRYBA1	NM_005208.3	616	gacttcgagatccaatcgattcc	289540	-	see also 3659 line
43068	CRYBA1	NM_005208.3	528	ctggatatcgtgggtatcagtat	289536	-	see also 3659 line
43069	CRYBA2	NM_005209.1	502	accgagctaccagtatgtattg	289544	-	see also 19023 line
43070	CRYBA2	NM_005209.1	187	gggtttgggtggccttttgattac	289542	-	see also 19023 line
43071	CRYBA4	NM_001886.1	498	tcgggctaccgagagatttcagt	289551	-	see also 19024 line
43072	CRYBA4	NM_001886.1	398	agctgagcagatgaactactctcc	289550	-	see also 19024 line
43073	CRYBA4	NM_001886.1	502	ggctaccgaggatttcagttatgt	289554	-	see also 19024 line
43074	CRYBB1	NM_001887.3	335	ggccgtgtgcgcagcatcattgt	289560	-	see also 19025 line
43075	CRYBB1	NM_001887.3	339	gtgtgcgcagcatcattgtctcc	289561	-	see also 19025 line
43076	CRYBB3	NM_004076.3	382	ctccggcctctgaatatgtatag	289568	-	see also 19026 line
43077	CRYBB3	NM_004076.3	447	tgcccgcaagatggagatgtgg	289570	-	see also 19026 line
43078	CRYGA	NM_014617.2	334	gtccaatctgcctgataattcc	289577	-	see also 19027 line
43079	CRYGA	NM_014617.2	611	ggcgggtccaccgatttgtactaa	289586	-	see also 19027 line
43080	CRYGB	NM_005210.2	536	ctcttagcagatcaggtatttg	289594	-	see also 19028 line
43081	CRYGB	NM_005210.2	542	ggcagatcattggatttgtactga	289596	-	see also 19028 line
43082	CRYGD	NM_006891.2	357	accgcttcgcttcaatgaatc	289599	-	see also 19029 line
43083	CRYGD	NM_006891.2	356	gaccgcttcgcttcaatgaat	289598	-	see also 19029 line
43084	CRYGS	NM_017541.2	315	tgcttagtgaggccagttataag	289610	-	see also 19030 line
43085	CRYGS	NM_017541.2	452	gagggtgtctgggtttttctatga	289613	-	see also 19030 line
43086	LIM2	NM_030657.2	604	gacgtttctggcagggtttct	289615	-	see also 19031 line
43087	AMBN	NM_016519.2	180	aacacgggtatggctagtgtga	289617	-	see also 19032 line
43088	AMBN	NM_016519.2	796	atgttttagctgccccttttgagc	289626	-	see also 19032 line
43089	AMBN	NM_016519.2	727	ttccaaatagcccgtttgtttc	289620	-	see also 19032 line
43090	ENAM	NM_031889.1	604	cagcaccacaaagctcatacaag	289649	-	see also 9042 line

1161

図46 (続き)

43091	ENAM	NM_031889.1	2507	ggcgaagggtactactacgttaata	289705	-	see also 19042 line
43092	TUFT1	NM_020127.1	834	gaggaacttcggagcaacaatgc	289740	-	see also 19034 line
43093	TUFT1	NM_020127.1	960	cggaaagtcgagcaaatgataga	289743	-	see also 19034 line
43094	KRTHA6	NM_003771.3	1230	cacggatgcgaagcctgttatta	289752	-	see also 19035 line
43095	KRTHA6	NM_003771.3	1231	acggcatgcaagcctgtttattag	289753	-	see also 19035 line
43096	KRTHB2	NM_033033.3	501	acggttcgcatctttcataaac	289756	-	see also 19036 line
43097	KRTHB2	NM_033033.3	1155	agcaagaacccgagatgtcaaa	289761	-	see also 19036 line
43098	KRTHB4	NM_033045.2	945	aacgtttacataggagaaatcc	289764	-	see also 19037 line
43099	KRTHB4	NM_033045.2	182	ggggccttggcagcttggtagt	289762	-	see also 19037 line
43100	AF053356_						
43100	CDS3	NM_023948.3	656	tgggtggagcgaaggacattacc	289769	-	see also 19038 line
43101	CDS3						
43101	CDS3	NM_023948.3	544	ccccagcttgcattgacattgt	289768	-	see also 19038 line
43102	ARVCF	NM_001670.1	2906	agccttgaggcgcgagaaactgg	289773	-	see also 19039 line
43103	ARVCF	NM_001670.1	2776	gcgtgtactctgcagaaagatg	289772	-	see also 19039 line
43104	BFAR	NM_016561.1	826	aagacgacctatataccatagaaa	289784	-	see also 6914 line
43105	BFAR	NM_016561.1	823	tccaagacgcctataccataga	289783	-	see also 6914 line
43106	BFAR	NM_016561.1	828	gagccctataccatagaaaca	289785	-	see also 6914 line
43107	C21orf29	NM_144991.2	1110	agccacatcgccgtctacaagt	289802	-	see also 19041 line
43108	C21orf29	NM_144991.2	827	aagataacgagagtgctaaatat	289797	-	see also 19041 line
43109	CAV1	NM_001753.3	279	atgtctgggggcaatactataga	289810	-	see also 1158 line
43110	CAV1	NM_001753.3	548	cacctcaactgtacgaataact	289816	-	see also 1158 line
43111	CLDN1	NM_021101.3	630	cagcatgtatggcaataatgc	289823	-	see also 19043 line
43112	CLDN1	NM_021101.3	600	ttcttcaggtctggcttatttta	289822	-	see also 19043 line
43113	CLDN10	NM_006984.3	472	atcaacaacgaagctttgatcc	289838	-	see also 19044 line
43114	CLDN10	NM_006984.3	651	gtcttcgcgacaagaatcatcg	289847	-	see also 19044 line
43115	CLDN11	NM_005602.4	522	agcccggtgtggttaagtacagg	289863	-	structural molecule
43116	CLDN12	NM_012129.2	391	gocgtgatgcagacactacttgg	289866	-	see also 19045 line
43117	CLDN12	NM_012129.2	826	cccatccaccagtatgcatact	289873	-	see also 19045 line
43118	CLDN14	NM_144492.1	1505	caccagctgcctacaagaacaat	289877	-	see also 19046 line
43119	CLDN15	NM_014343.1	257	gtgatggctgtggaaaccttg	289878	-	see also 19047 line
43120	CLDN17	NM_012131.1	271	tccttgatcgccctgcttattgg	289892	-	see also 19048 line
43121	CLDN17	NM_012131.1	179	tcgattgcaatgaagttctat	289888	-	see also 19048 line
43122	CLDN18	NM_016369.1	751	gaggacggaggtacaattctatcc	289913	-	see also 19049 line
43123	CLDN18	NM_016369.1	622	aactacaagccgtttcttata	289909	-	see also 19050 line
43124	CLDN19	NM_148960.1	295	acgcaggcagcgccatcatcact	289916	-	see also 19051 line
43125	CLDN2	NM_020384.2	780	gtgctgacagcatgaatttga	289919	-	see also 19051 line
43126	CLDN2	NM_020384.2	778	tgtgtcctgacagcatgaattt	289918	-	see also 19051 line
43127	CLDN5	NM_003277.2	1094	cacggcactacacagaaga	289924	-	see also 19052 line
43128	CLDN5	NM_003277.2	832	gaggcgtgctctacctgttttc	289922	-	see also 19052 line
43129	CLDN7	NM_001307.3	660	ggccactggagccctaatggttg	289928	-	see also 19054 line
43130	CLDN7	NM_001307.3	883	atccctaccaattaatatga	289933	-	see also 19054 line
43131	CLDN7	NM_001307.3	838	tcctgtatggccatcagattgt	289932	-	see also 19054 line
43132	CLDN8	NM_012132.3	566	gtgaattgtggcccaaaacgtga	289947	-	see also 19055 line

1162

図46 (続き)

43133	CLDN8	NM_012132.3	465	tgtgacggctgggaatcatcttc	289944	-	see also 19055 line	-
43134	CLDN9	NM_020982.1	3	ggcttcgaccgcttaagaactgc	289956	-	-	structural molecule -
43135	CLDN9	NM_020982.1	507	ggcggctgacgctcttatctgag	289957	-	see also 43134 line	-
43136	CLTC	NM_004859.1	2877	gtgcgtttgttgaagaagtattgt	290043	-	see also 19056 line	-
43137	CLTC	NM_004859.1	2113	ccctggagtggttagtcaactact	290014	-	see also 19056 line	-
43138	COL21A1	NM_030820.2	288	gtgtactgtctccacagattta	290105	-	see also 19057 line	-
43139	COL21A1	NM_030820.2	557	caatttgcgtcgtaattacctttt	290124	-	see also 19057 line	-
43140	CTNNA1	NM_001903.1	653	aaegtccgatctctctactgc	290175	-	see also 1216 line	-
43141	CTNNA1	NM_001903.1	697	ccctgatgtcgcagcgcctataagg	290176	-	see also 1216 line	-
43142	CTNNA1	NM_001903.1	2513	tctctagctcgcctctacccaata	290203	-	see also 1216 line	-
43143	CTNND2	NM_001332.2	1733	ggcaggtcccccgtccattgtag	290217	-	see also 19059 line	-
43144	CTNND2	NM_001332.2	2291	acgggtgtcctaaggaattgttag	290228	-	see also 19059 line	-
43145	CTNND2	NM_001332.2	649	tcggccagctaccatagcaacc	290213	-	see also 19059 line	-
43146	DCTN3	NM_007234.3	295	tcttagcagagagagcagtttctc	290256	-	see also 19060 line	-
43147	DCTN3	NM_007234.3	495	tacaaacagactacacattctct	290258	-	see also 19060 line	-
43148	DJ473B4	NM_019556.1	752	ctcacttaagtgtgaatcaaaa	290271	-	see also 19061 line	-
43149	DJ473B4	NM_019556.1	749	tactccacttaagtgtgaatca	290270	-	see also 19061 line	-
43150	DRP2	NM_001939.1	2834	ccggtatccttcggcaacataag	290309	-	see also 19062 line	-
43151	DRP2	NM_001939.1	1267	atcaacgtccggtgaacacaact	290291	-	see also 19062 line	-
43152	EVPL	NM_001988.1	1402	agcgggtataagctggttagataac	290313	-	see also 19063 line	-
43153	EVPL	NM_001988.1	6027	agctagagagaagatttgacaga	290322	-	see also 19063 line	-
43154	FLJ13646	NM_024584.2	251	gagctacacccgagaaaagtact	290327	-	see also 19064 line	-
43155	FLJ13646	NM_024584.2	184	gaaggatctgaacaagcatataa	290323	-	see also 19064 line	-
43156	FLJ13646	NM_024584.2	247	caggaggactacacccgagaaaagt	290325	-	see also 19064 line	-
43157	FLJ32214	NM_152473.1	736	cccatggaggagggttcacttctc	290350	-	see also 19065 line	-
43158	FLJ32214	NM_152473.1	966	ggcgagatagaggagatataaaa	290359	-	see also 19065 line	-
43159	HSPG2	NM_005529.2	9926	caogtggagagccaccatctgc	290405	-	see also 19066 line	-
43160	HSPG2	NM_005529.2	10420	ggctgccaaaggagacgtatat	290406	-	see also 19066 line	-
43161	HUMCYT2 A	NM_015848.1	1260	ggctacgggctgagattgaaaat	290423	-	see also 19067 line	-
43162	HUMCYT2 A	NM_015848.1	1588	tggcagtagccgtggagtttttg	290426	-	see also 19067 line	-
43163	A	NM_015848.1	1259	aggctacgggctgagattgaaaa	290422	-	see also 19067 line	-
43164	ITGBL1	NM_004791.1	670	tgtctaatgtaggtacatgtca	290433	-	see also 3327 line	-
43165	ITGBL1	NM_004791.1	1412	ggcaacatcggcgggaagtgaac	290448	-	see also 3327 line	-
43166	IVL	NM_005547.1	1543	cagcagagagacaactaaaaa	290461	-	see also 19069 line	-
43167	IVL	NM_005547.1	1546	caggagcggacaactaaaactct	290462	-	see also 19069 line	-
43168	K6HF	NM_004693.1	978	cggcggaggtcaagcacataacg	290470	-	see also 19070 line	-
43169	K6HF	NM_004693.1	848	tggccgagagatcaacttcagc	290469	-	see also 19070 line	-
43170	KRT12	NM_000223.1	1001	agcttcgttaaggagattagcacc	290489	-	see also 19071 line	-
43171	KRT12	NM_000223.1	339	aggaggtgtctctctatgttttc	290474	-	see also 19071 line	-
43172	KRT4	NM_002272.1	937	gacggagagagcggacaacata	290496	-	see also 19072 line	-
43173	KRT4	NM_002272.1	1402	caegtccgtggtctcttccatgg	290500	-	see also 19072 line	-

図46 (続き)

1163

43174	KRT7	NM_005556.2	1036	taccggagatgagatttccagaga	290504	-	see also 19073 line
43175	KRT7	NM_005556.2	1473	ctgggctctgaagcctattcc	290507	-	see also 19073 line
43176	KRTA7	NM_003770.3	402	gtctttgtctctctctatcgatgt	290508	-	see also 19074 line
43177	KRTA7	NM_003770.3	608	ctgtgggctctactacgcaaaaaca	290509	-	see also 19074 line
43178	KRTB5	NM_002283.2	933	ctgagacactcggctcatagta	290512	-	see also 19075 line
43179	KRTB5	NM_002283.2	883	ttcttgaggcgcctctctatgaaga	290511	-	see also 19075 line
43180	LAD1	NM_005558.3	1513	gccttgacactgagttattctggg	290520	-	see also 19077 line
43181	LAD1	NM_005558.3	1475	gccatcaggagatcagaatctgt	290519	-	see also 19077 line
43182	LAMA1	NM_005559.2	1859	tacacgggtgtctactcagatattcc	290556	-	see also 3865 line
43183	LAMA1	NM_005559.2	3236	ctgtgggctcgaactcatcag	290569	-	see also 3865 line
43184	LAMA2	NM_000426.2	1290	gtcattgogactcaattgtttcc	290716	-	see also 327 line
43185	LAMA2	NM_000426.2	6737	taccgtatctagtagtaoaaagaac	290841	-	see also 327 line
43186	LAMA2	NM_000426.2	4855	gcctgcgcacataaaaatgtgt	290792	-	see also 327 line
43187	LAMA3	NM_000227.2	2223	ttggcgcaagattgaagtatca	290977	-	see also 19080 line
43188	LAMA3	NM_000227.2	3202	aacggcagagaccattcgattca	291009	-	see also 19080 line
43189	LAMB1	NM_002291.1	5638	tcggttcactctctaaaggatata	291267	-	see also 1467 line
43190	LAMB1	NM_002291.1	2658	tgcgaacctcagggttcgttaag	291222	-	see also 1467 line
43191	LAMB2	NM_002292.2	822	accgatatttctctactgt	291272	-	see also 1470 line
43192	LAMB2	NM_002292.2	3732	gtgactctcgtggaatagatata	291293	-	see also 1470 line
43193	LAMB3	NM_000228.1	640	gggaaggctccaaacttaaccttat	291316	-	see also 170 line
43194	LAMB3	NM_000228.1	1944	ctccggatctctaggtcaaga	291329	-	see also 170 line
43195	LAMC1	NM_002293.2	3601	atgcctacagagagtgataaac	291401	-	see also 1471 line
43196	LAMC1	NM_002293.2	4362	aaggacaggatcacttacaaga	291418	-	see also 1471 line
43197	LAMC3	NM_006059.2	3992	ggcgacgctacggcaaacagaaac	291448	-	see also 19084 line
43198	LAMC3	NM_006059.2	3236	ctgggacacactagacattctgc	291446	-	see also 19084 line
43199	LCMR1	NM_153450.1	504	agcagtgctctgtagcatatt	291457	-	see also 19085 line
43200	LCMR1	NM_153450.1	397	cagcctccgctctctcattgaga	291453	-	see also 19085 line
43201	LMNB1	NM_005573.2	1643	ggcagtgatgtgttagcatct	291480	-	see also 3873 line
43202	LMNB1	NM_005573.2	1585	gtcgtgtgtacgtacactaga	291477	-	see also 3873 line
43203	LOC12614	NM_145807.1	1262	tgcgctgtgtggcggtttacaag	291499	-	see also 19087 line
43204	LOC12614	NM_145807.1	749	ccgagagctgcgggttcaactct	291494	-	see also 19087 line
43205	LOC12614	NM_145807.1	1118	ctgaacctcagtgtaaaactac	291497	-	see also 19087 line
43206	MAP1A	NM_002373.3	7006	aacctggcatgatgaataacctgg	291571	-	see also 19088 line
43207	MAP1A	NM_002373.3	6006	ggggcacagccgagtagacagt	291564	-	see also 19088 line
43208	MAP1B	NM_005909.2	6448	ggcggcagagtagtgatttg	291725	-	see also 4125 line
43209	MAP1B	NM_005909.2	585	cacggaggtgcgcttaattgatca	291592	-	see also 4125 line
43210	MAP1B	NM_005909.2	6449	ccgctcagagtagtgattatgc	291726	-	see also 4125 line
43211	MAP4	NM_002375.2	1516	ccgggaacacacagtgatttga	291770	-	see also 19090 line
43212	MAP4	NM_002375.2	1629	atgttgctctctccacagtaaaa	291773	-	see also 19090 line
43213	MAP7	NM_003980.2	525	ttgtacggcgacacatggaagg	291799	-	see also 19091 line
43214	MAP7	NM_003980.2	669	atgttgatcccgctcattagaag	291801	-	see also 19091 line
43215	MBP	NM_002385.1	443	ggcagagagctccagactataatc	291835	-	see also 19092 line
43216	MBP	NM_002385.1	343	ccccgtagctccactcttcaaga	291831	-	see also 19092 line
43217	MEGF10	NM_032446.1	2592	ggctgtgcccagatattgtgattg	291873	-	see also 19093 line

1164

図46 (続き)

43218	MEGF10	NM_032446.1	1275	gggtcttaacggcgcataaattgga	291858	-	see also 19093 line
43219	MGC26708	NM_152581.1	1267	tcccatgggggtttaacagtct	291938	-	see also 19094 line
43220	MGC26708	NM_152581.1	1237	ccgggtgcatacagtggtatag	291934	-	see also 19094 line
43221	MPZ	NM_000530.3	375	atgcttcatttgtatcacaaac	291954	-	see also 19095 line
43222	MPZ	NM_000530.3	371	aaggatggctccattgtcataca	291953	-	see also 19095 line
43223	MYOC	NM_000261.1	1118	cacggacagttccgtattcttg	291969	-	see also 19096 line
43224	MYOC	NM_000261.1	748	cacggatgtggaactagttt	291962	-	see also 19096 line
43225	NF2	NM_000268.2	511	gaogcggagatgaggtcaattg	291978	-	see also 225 line
43226	NMP200	NM_014502.3	1334	gacttgaagggaacgtactaatgt	292031	-	see also 19098 line
43227	NMP200	NM_014502.3	234	tgcggagagcaccatgtgtatcc	292014	-	see also 19098 line
43228	NTN1	NM_004822.1	260	tgcattcccggaacttgcattgc	292042	-	see also 19099 line
43229	NTN1	NM_004822.1	1639	gtggaagttaacgggtgaacatca	292045	-	see also 19099 line
43230	NTN4	NM_021229.2	1884	tccgtcccgtgcacataaagagc	292072	-	see also 19100 line
43231	NTN4	NM_021229.2	1473	gtcaacttcgacgttaattgtgtg	292068	-	see also 19100 line
43232	NUMA1	NM_006185.1	670	gagagaggggttaaacattatga	292085	-	see also 4275 line
43233	NUMA1	NM_006185.1	5031	ggcagctgagcactataagctgc	292102	-	see also 4275 line
43234	ODF1	NM_024410.2	769	aaccgtgcagcccatatgatcc	292126	-	see also 19102 line
43235	ODF1	NM_024410.2	568	tacgaactgccttgatcgaaaaa	292121	-	see also 19102 line
43236	ODF2	NM_002540.3	1912	gacgggtaacagatcttgtaaa	292148	-	see also 1635 line
43237	ODF2	NM_002540.3	1849	agccgctacaaccaaagttgtaaa	292145	-	see also 1635 line
43238	ODF2	NM_002540.3	1913	accgggttaacagatcttgaac	292149	-	see also 1635 line
43239	OSF-2	NM_006475.1	2002	tcccgctgactgtctatacaact	292231	-	see also 4545 line
43240	OSF-2	NM_006475.1	2001	atcccgctgactgtctatacaac	292230	-	see also 4545 line
43241	PKP3	NM_007183.1	1004	gagactcagcagcgggtttgatg	292244	-	see also 4985 line
43242	PKP4	NM_003628.2	2605	tggcaaccatcgggtgtgtaaac	292304	-	see also 19106 line
43243	PKP4	NM_003628.2	3311	accctgcctgaatacagatagg	292334	-	see also 19106 line
43244	PKP4	NM_003628.2	3310	gacctgcctcgaatacagatag	292333	-	see also 19106 line
43245	PLP1	NM_000533.2	525	tggagcgggtgtgtcatgtttg	292356	-	see also 403 line
43246	PLP1	NM_000533.2	404	ggcgcatcagcagacatttgg	292354	-	see also 403 line
43247	PNN	NM_002687.2	87	ggcggtcgccgtgagaacttgc	292360	-	see also 1749 line
43248	PNN	NM_002687.2	2137	tcgcagacagaaagggtctatatc	292395	-	see also 1749 line
43249	PRPH	NM_006262.2	62	tgggtcacccgcctcactatcc	292398	-	see also 19108 line
43250	PRPH	NM_006262.2	1222	tccgtgcctgcattcttttgc	292403	-	see also 19108 line
43251	SPON2	NM_012445.1	1053	agcagggacaatgagattgtaga	292406	-	see also 19109 line
43252	SPON2	NM_012445.1	1243	ctgagtgctgcctcgtataactgc	292408	-	see also 19109 line
43253	TEKT1	NM_053285.1	1096	gtcgtgatgcgcacacataatag	292421	-	see also 9495 line
43254	TEKT1	NM_053285.1	376	atgatctactatataagatc	292416	-	see also 9495 line
43255	TEKT2	NM_014466.2	646	ctcggaccatcggggcaaatgg	292432	-	see also 5697 line
43256	TEKT2	NM_014466.2	168	tgcggactggcacactaacagc	292425	-	see also 5697 line
43257	TEKT3	NM_031898.1	677	agtagcccgagaatgtctattt	292460	-	see also 19112 line
43258	TEKT3	NM_031898.1	104	aacgttaggttgcatttaacg	292443	-	see also 19112 line
43259	THOC1	NM_005131.1	50	agcggcagcgggttttaagaagt	292489	-	see also 3606 line
43260	THOC1	NM_005131.1	279	accgcatctacactttgtatt	292498	-	see also 3606 line
43261	THOC1	NM_005131.1	703	ttgattacaacctgtatgaaaa	292510	-	see also 3606 line

1165

図46 (続き)

43262	UPK1B	NM_006952.2	575	gcctccgactgagaataatga	292539	-	see also 19114 line
43263	UPK1B	NM_006952.2	226	ggctgctggatcgccatattg	292531	-	see also 19114 line
43264	USH2A	NM_007123.3	737	atcctaagcccatagcaattct	292556	-	see also 4957 line
43265	USH2A	NM_007123.3	3685	gagatcaataccatacagtat	292655	-	see also 4957 line
43266	VAPA	NM_003574.4	518	ttgactatgacgaatgaaag	292717	-	see also 2371 line
43267	VAPA	NM_003574.4	357	cacagatgtactactacaatc	292710	-	see also 2371 line
43268	VAPB	NM_004738.3	372	accgacagaccgaatgtgt	292737	-	see also 3265 line
43269	VAPB	NM_004738.3	452	atcgatgcaggcccaataa	292739	-	see also 3265 line
43270	VIL2	NM_003379.3	670	acgtggagatctcaagataat	292764	-	see also 19116 line
43271	VIL2	NM_003379.3	1351	aggcggatgacagataaagc	292770	-	see also 19116 line
43272	PI15	NM_015886.1	1031	cggataggatgocgaattcatc	292793	-	see also 6561 line
43273	PI15	NM_015886.1	1195	gggatctgtactgacaatctgt	292804	-	see also 6561 line
43274	CIDE-3	NM_022094.2	437	agccctggcaggaggatacagtg	292808	-	apoptosis
43275	EOG2	NM_032566.1	231	cacctatgggaatgaatgtact	292811	-	see also 19118 line
43276	EOG2	NM_032566.1	253	ttgttaccgagagcttgaaag	292812	-	see also 19118 line
43277	EOG2	NM_032566.1	187	ccctgcccatacacaactacc	292810	-	see also 19118 line
43278	FKSG28	NM_030929.3	1169	ccccagctgcgatacctaacc	292817	-	see also 19119 line
43279	FKSG28	NM_030929.3	1141	cactgaccagctgaactctaca	292815	-	see also 19119 line
43280	ITIH2	NM_002216.1	1707	ttcggctaaccagcagttagct	292885	-	see also 1410 line
43281	ITIH2	NM_002216.1	1589	cagtacagcagctcactcaaac	292876	-	see also 1410 line
43282	ITIH3	NM_002217.1	290	gaccatggcagggtgtacctacc	292913	-	see also 19121 line
43283	ITIH3	NM_002217.1	130	atggcaatgaggtctacagtacc	292907	-	see also 19121 line
43284	ITIH4	NM_002218.3	2156	ctgtctctgtctgaatgatg	292971	-	see also 19122 line
43285	ITIH4	NM_002218.3	1432	acctggagatcccaagcaatgc	292955	-	see also 19122 line
43286	OL-64	NM_173850.2	1933	gacacactctgtctgaatgatg	292995	-	see also 19124 line
43287	OL-64	NM_173850.2	1936	accactgtctgcaagatagaca	292996	-	see also 19124 line
43288	OL-64	NM_173850.2	1938	cactgtctcaagatagacaaa	292997	-	see also 19124 line
43289	PZP	NM_002864.1	1446	acggcacatatacactgaatag	293039	-	see also 19125 line
43290	PZP	NM_002864.1	1621	ccccattgcaggaatgtcatc	293042	-	see also 19125 line
43291	RECK	NM_021111.1	2755	ttcccgctgactactatccaaa	293161	-	see also 8086 line
43292	RECK	NM_021111.1	2757	ccgctgatcactatccaaaagc	293163	-	see also 8086 line
43293	RECK	NM_021111.1	2751	atcattcccgctgactactacc	293160	-	see also 8086 line
43294	SERPINA1	NM_000295.2	1098	atgaactcaccacagatatactc	293167	-	see also 19127 line
43295	SERPINA1	NM_000295.2	1101	aactcaccacagatatactacc	293168	-	see also 19127 line
43296	SERPINA1	NM_016186.1	1710	aagtgaacccggccatttcatttc	293190	-	see also 19128 line
43297	SERPINA1	NM_016186.1	1477	tcogaagttaagctagataga	293183	-	see also 19128 line
43298	SERPINA1	NM_175739.2	225	tacctttatggatctcttgc	293192	-	see also 19129 line
43299	SERPINA1	NM_175739.2	403	ccccgagtagaacaactcttctc	293193	-	see also 19129 line
43300	SERPINA3	NM_001085.2	746	gtgccatgatgagtttgcatac	293207	-	see also 19130 line
43301	SERPINA3	NM_001085.2	705	atcagtcaaggttctcttgagc	293206	-	see also 19130 line
43302	SERPINA1	NM_030666.2	488	ggcttcgggcatggttgataaca	293226	-	see also 19131 line
43303	SERPINA1	NM_030666.2	276	aacaaagctggagcgtcttat	293215	-	see also 19131 line
43304	SERPINA1	NM_080475.1	1133	ctcatcaacaacagctcttctc	293283	-	see also 19132 line
43305	SERPINA1	NM_080475.1	707	tgccctacgtttaacaacaaita	293265	-	see also 19132 line

1166

図46 (続き)

43306	SERPINB1	NM 012397.2	1146	caccggcataggctttactgtca	293301	-	see also 19133 line
43307	SERPINB1	NM 012397.2	1144	gccaccggcataggctttactgt	293300	-	see also 19133 line
43308	SERPINB3	NM 006919.1	383	ttcggagaaaaaacgtatctatt	293304	-	see also 19134 line
43309	SERPINB3	NM 006919.1	724	tgctctgctggaggatgacagg	293308	-	see also 19134 line
43310	SERPINB4	NM 002974.1	1036	gccacggctctcagatctctaa	293326	-	-
43311	SERPINB4	NM 002974.1	524	ctgggtggaagtcacacgaatg	293316	-	see also 43310 line
43312	SERPINB5	NM 002639.1	344	agggctctacgtacacaaatct	293338	-	see also 1713 line
43313	SERPINB5	NM 002639.1	80	atgccctgcaactagcaaatctg	293332	-	see also 1713 line
43314	SERPINB7	NM 003784.1	488	gtccgttggcgctcgaagtga	293359	-	see also 19136 line
43315	SERPINB7	NM 003784.1	490	ccgcttggcgctcgaagtga	293360	-	see also 19136 line
43316	SERPINB7	NM 003784.1	1156	aaggcgaatgaactctatgtag	293384	-	see also 19136 line
43317	SERPINF1	NM 002615.3	1040	tccgagttcattcatgacataga	293414	-	see also 19137 line
43318	SERPINF1	NM 002615.3	1039	ctccgggttcattcatgacatag	293413	-	see also 19137 line
43319	SERPINF1	NM 002615.3	1309	ccgcctggactatcaccttaacc	293420	-	see also 19137 line
43320	SERPINF2	NM 000934.1	1426	aagcttttcggcctgacttaaa	293423	-	see also 19138 line
43321	SERPINF2	NM 000934.1	930	accacacccacttgatggaacg	293421	-	see also 19138 line
43322	SERPINF1	NM 000062.1	1248	aacactaccocgcacataaagtga	293434	-	see also 19139 line
43323	SERPINF1	NM 000062.1	477	ggcgggtgttggggatgcttgg	293428	-	see also 19139 line
43324	SERPINF1	NM 005025.1	654	gtccgagtttaggcctgaaata	293451	-	see also 19140 line
43325	SERPINF1	NM 005025.1	297	ccgcacactaatgggatataatga	293441	-	see also 19140 line
43326	SERPINF2	NM 006217.2	949	aacataccagagatattatgg	293477	-	see also 19141 line
43327	SERPINF2	NM 006217.2	1017	ttcccaagtggagcaaaaagttt	293479	-	see also 19141 line
43328	SLP1	NM 003064.2	395	tctcggtttccctgtgaagc	293493	-	see also 19142 line
43329	SLP1	NM 003064.2	146	cagtgccttagatcacagaagc	293487	-	see also 19142 line
43330	SPINK1	NM 003122.1	251	gtcggaaaocggcagactctctc	293501	-	see also 19143 line
43331	SPINK1	NM 003122.1	223	cccaatgaatgcggttatgttt	293500	-	see also 19143 line
43332	SPINK2	NM 021114.1	225	ggcagtgacatgtccactatgc	293503	-	see also 19144 line
43333	SPINK2	NM 021114.1	123	gcctctctgacccctcaattgg	293502	-	see also 19144 line
43334	SPINK4	NM 014471.1	183	ggcctcacatatacgaatgaatg	293508	-	see also 19145 line
43335	SPINK4	NM 014471.1	184	ggctcacatatacgaatgaatgc	293509	-	see also 19145 line
43336	SPINK5	NM 006846.1	2563	atctgtctgtaatttogaagc	293549	-	see also 19146 line
43337	SPINK5	NM 006846.1	2239	tggcaaatgtacacacacatcagt	293544	-	see also 19146 line
43338	SPINLW1	NM 020398.2	236	atgtttagatctcaacaagatg	293568	-	see also 19147 line
43339	SPINLW1	NM 020398.2	301	ttcttattgtggatgacaaag	293570	-	see also 19147 line
43340	SPINT1	NM 003710.2	1708	cacggagcacctgtctataacc	293583	-	see also 2534 line
43341	SPINT1	NM 003710.2	1031	tgaagagtttctgttatggagg	293579	-	see also 2534 line
43342	SPINT2	NM 021102.1	667	tccagagatatgttcaactaga	293592	-	see also 19149 line
43343	SPINT2	NM 021102.1	659	aagacacactccagcagatgttc	293589	-	see also 19149 line
43344	UNC5D	NM 080872.1	1466	aacccttttctggacatcaaatg	293621	-	see also 9533 line
43345	UNC5D	NM 080872.1	371	gtccgggaagtgttcaatgt	293604	-	see also 9533 line
43346	WFDC10A	NM 080763.2	196	agcagccttaaacatatactatgc	293645	-	see also 19151 line
43347	WFDC10A	NM 080763.2	195	cagcagccttaaacatatactatgc	293644	-	see also 19151 line
43348	WFDC12	NM 080869.1	258	aggaaacagagggaagatgtgt	293649	-	see also 19152 line
43349	WFDC3	NM 080614.1	583	ggcgggtgattgtccaaagtct	293662	-	see also 19153 line

1167

図46 (続き)

43350	WFD03	NM_080614.1	747	gtatgattccgaattagagatcc	293665	-	see also 19153 line	-	
43351	WFD05	NM_145652.2	376	ctcagactctcggcgaataaac	293666	-	-	-	
43352	WFD08	NM_130896.1	502	cagaacggcctcgtatgaattg	293675	-	see also 19154 line	-	
43353	WFD08	NM_130896.1	681	ggcaacgaagcccttgctatgt	293684	-	see also 19154 line	-	
43354	AHSG	NM_001622.1	424	tccgtgtgtatcggcaaatgga	293693	-	see also 19155 line	-	
43355	AHSG	NM_001622.1	414	tggcaagttttcgtgggtz'acg	293692	-	see also 19155 line	-	
43356	BIRC4	NM_001167.2	398	cagattatacaacggctttatc	293707	-	see also 19156 line	-	
43357	BIRC4	NM_001167.2	430	gtccacgagctctacaattct	293708	-	see also 19156 line	-	
43358	BIRC5	NM_001168.1	99	acggcatctctacattcaagaac	293735	-	see also 19157 line	-	
43359	BIRC5	NM_001168.1	93	aggaccacgcactctacattc	293734	-	see also 19157 line	-	
43360	CAST	NM_001750.4	1035	gaactcgcgtcaattaagaagt	293762	-	see also 19158 line	-	
43361	CAST	NM_001750.4	1030	agctcgcctcgcgtcaataag	293761	-	see also 19158 line	-	
43362	CST1	NM_001898.2	265	gacgtcgcgtcgggtactaaga	293789	-	cysteine protease inhibitor	-	
43363	CST11	NM_080830.2	68	ctgttgccattctattgactct	293792	-	see also 19159 line	-	
43364	CST11	NM_080830.2	229	caggatcttcggagtccttaag	293793	-	see also 19159 line	-	
43365	CST3	NM_000099.2	241	gcagtcggcgaggtacacaaaagc	293796	-		atherosclerosis(粥状硬化症)、coronary artery disease(冠動脈疾患)	
43366	CST4	NM_001899.2	144	atccagggtggcatctatgatgc	293797	-		structural molecule	
43367	CST5	NM_001900.2	244	tgggtgaactactacttcaatg	293800	-	see also 19160 line	cysteine protease inhibitor	-
43368	CST5	NM_001900.2	164	gagtaacaaggtcattataaa	293798	-	see also 19160 line		
43369	CST6	NM_001323.2	260	tcggagacacgacatcatcaag	293804	-		cysteine protease inhibitor	-
43370	CST6	NM_001323.2	216	ggcgtggccagctacacacatgg	293803	-	see also 43369 line		
43371	CST7	NM_003650.2	462	ctgcacgaacgacatgtcttgt	293808	-	see also 19161 line		
43372	CST7	NM_003650.2	504	aaggcccttagttcagatagta	293811	-	see also 19161 line		
43373	CST8	NM_005492.2	647	agccttaagcactaatgaatc	293818	-	see also 19162 line		
43374	CST8	NM_005492.2	580	cagttcaggtcacaaatctct	293816	-	see also 19162 line		
43375	CST9L	NM_080610.1	486	gagtcgaagactgtattctcaat	293825	-	see also 19163 line		
43376	CST9L	NM_080610.1	451	tggggcaacatcttgaattctctgg	293824	-	see also 19163 line		
43377	CSTA	NM_005213.2	227	tacgagcaggtgataataaat	293828	-	see also 19164 line		
43378	CSTA	NM_005213.2	207	aacaataactacattaaggtac	293827	-	see also 19164 line		
43379	CSTA	NM_005213.2	270	aagtctccggacaaaatgagg	293830	-	see also 19164 line		
43380	CSTB	NM_000100.2	303	tacacctggagtggtccaatct	293832	-	see also 19165 line		
43381	CSTB	NM_000100.2	342	agcccttgacctatctactac	293833	-	see also 19165 line		
43382	ICEBERG	NM_021571.2	5	ctgacaaactcttgcgtaaaag	293835	-	apoptosis	cysteine protease inhibitor	-
43383	ICEBERG	NM_021571.2	70	gcttgctgggttgctctattaga	293838	-	see also 43382 line		
43384	ICEBERG	NM_021571.2	83	gcctattagagatgaagtatt	293839	-	see also 43382 line		
43385	KNG	NM_000893.2	915	atcgatattcagctacgaattgc	293863	-	see also 19166 line		
43386	KNG	NM_000893.2	807	tactcaattgtgcacacgaattg	293856	-	see also 19166 line		
43387	TIMP4	NM_003256.1	196	tgtgattcggggccaaatctcc	293882	-	see also 2200 line		
43388	TIMP4	NM_003256.1	321	aaggatgttcagtatctatcac	293886	-	see also 2200 line		

1168

図46 (続き)

43389	C4A	NM_007293.1	4567	gacggttaagtgagtcactttga	329804	-	see also 19169 line
43390	C4A	NM_007293.1	4701	cgcaacctgtacgactactaca	329805	-	see also 19169 line
43391	CD109	NM_133493.1	3107	ggcgatccctacatagattaga	293989	-	see also 9588 line
43392	CD109	NM_133493.1	466	tatgaccccttattcatttgaga	293894	-	see also 9588 line
43393	FLJ25179	NM_144670.1	115	gacgggttgtagatacaatttc	294030	-	see also 19171 line
43394	FLJ25179	NM_144670.1	113	cgacggttgtagatacaatat	294029	-	see also 19171 line
43395	SPP2	NM_006944.1	507	ttcacagagtcataagtgac	294045	-	see also 19172 line
43396	SPP2	NM_006944.1	176	atctgttcgggattcagaagc	294042	-	see also 19172 line
43397	SPP2	NM_006944.1	539	atcgttcacttgggataatgaga	294048	-	see also 19172 line
43398	VIP	NM_015692.1	4837	gacggcgagtccttctacttt	294078	-	see also 19173 line
43399	VIP	NM_015692.1	3673	tgcacaggtctcgagctttatc	294070	-	see also 19173 line
43400	DEFB126	NM_030931.2	201	agctgacagcgtcctaattatc	294093	-	see also 19174 line
43401	DEFB126	NM_030931.2	205	gacagagcgtctaattatctgt	294094	-	see also 19174 line
43402	CDKN1C	NM_000076.1	1067	ggctctgattccgattcttcg	294097	-	see also 19175 line
43403	CDKN2C	NM_001262.2	1393	aggcttaataccgattgaaag	294108	-	see also 822 line
43404	PKIA	NM_006823.2	650	agcaggtcttgatatacaaga	294117	-	see also 19177 line
43405	PKIA	NM_006823.2	627	agcaatgaattagccctgaaatt	294116	-	see also 19177 line
43406	PKIB	NM_032471.4	432	gagctggggcgcgaattttgc	294119	-	kinase-related
43407	PKIB	NM_032471.4	512	cacagacgggaacctcagatttc	294121	-	see also 43406 line
43408	PKIB	NM_032471.4	441	gtcgcaattttgcattctcagc	294120	-	see also 43406 line
43409	DNAJC3	NM_006260.2	1505	caggcggaacttagatttaaa	294169	-	see also 19178 line
43410	DNAJC3	NM_006260.2	251	atcgaggctactctgttttta	294127	-	see also 19178 line
43411	MBIP	NM_016586.1	134	ccgagagaggtgctctacgaatc	294173	-	see also 6926 line
43412	MBIP	NM_016586.1	660	taaccttaccgccgatttaaaa	294187	-	see also 6926 line
43413	MBIP	NM_016586.1	589	aacgtgaagggaattttgcaatg	294185	-	see also 6926 line
43414	PPP1R1B	NM_032192.2	799	ttcgagagctgggtatccaaga	294198	-	see also 19180 line
43415	PPP1R1B	NM_032192.2	736	tgcaggtctatcagcaatttgaat	294197	-	see also 19180 line
43416	SOGS1	NM_003745.1	526	ggcatcccgctgcactttcagg	294202	-	see also 19181 line
43417	SOGS1	NM_003745.1	471	ggcgccagcggaactgcttttc	294201	-	see also 19181 line
43418	PPPIR1A	NM_006741.2	371	ctccagcgcaacgggaagaagtg	294203	-	see also 4763 line
43419	C7orf16	NM_006658.2	173	ccctcgttcagccacttgatg	294207	-	see also 19183 line
43420	C7orf16	NM_006658.2	183	agccacttagatgattcttcaga	294210	-	see also 19183 line
43421	C7orf16	NM_006658.2	200	ttcagaccagttcattaaggact	294211	-	see also 19183 line
43422	CABIN1	NM_012295.2	4193	gaccagattacgtcaaatgtaa	294267	-	see also 19184 line
43423	CABIN1	NM_012295.2	6039	ctgcggccaactattatcacc	294284	-	see also 19184 line
43424	I-4	NM_025210.1	323	accgcgaactacagagattac	294290	-	see also 19185 line
43425	I-4	NM_025210.1	557	agcgagagttcgaaatgagaga	294295	-	see also 19185 line
43426	PPPIR11	NM_021959.1	272	aaccggagcttaccatacaact	294299	-	phosphatase
43427	ANP32E	NM_030920.2	476	atggctaattggaactaagttc	294302	-	see also 8963 line
43428	ANP32E	NM_030920.2	862	agctgtccaccggaaggatag	294314	-	see also 8963 line
43429	SNGB	NM_003085.2	254	tggcttcagtggtgaaaaaac	294318	-	see also 19187 line
43430	GPS1	NM_004127.3	1193	gtcagccgacatgcataggatgg	294330	-	see also 19188 line
43431	GPS1	NM_004127.3	1159	accgtgccatccagatttc	294328	-	see also 19188 line
43432	OAZ1	NM_004152.2	368	tcggatgatggctggaatgaac	294400	-	see also 19189 line

1169

図46 (続き)

43433	OAZ1	NM 004152.2	445	cacagacgccaacacgattaaact	294401	-	see also 19189 line
43434	PSMF1	NM 006814.2	817	tgcttcccaagagcactatig	294416	-	see also 19190 line
43435	PSMF1	NM 006814.2	296	gaacagccgggtcccaatgataa	294406	-	see also 19190 line
43436	RNH	NM 002939.2	2700	agctggctctgaacgaattac	294417	-	see also 19191 line
43437	ARRB1	NM 004041.2	1099	gagaacgagacgacagatagac	294430	-	see also 19192 line
43438	ARRB1	NM 004041.2	499	gtcatccggaagggttcagatgc	294426	-	see also 19192 line
43439	ATPIF1	NM 016311.3	162	ctogatacagtcgagaaatgctg	294434	-	see also 19193 line
43440	ATPIF1	NM 016311.3	362	agggccataagcagaagatcaaa	294438	-	see also 19193 line
43441	NF1	NM 000267.1	5709	tgctcaatctgacattactaat	294537	-	see also 211 line
43442	NF1	NM 000267.1	2821	catgaacataagaggttctatga	294491	-	see also 211 line
43443	ALS2	NM 020919.2	4960	ggcgtcaactccacgaagactct	294774	-	see also 8023 line
43444	ALS2	NM 020919.2	1692	aggtctgaacgggtgaacacgagg	294670	-	see also 8023 line
43445	ARHGEF3	NM 019555.1	857	tcaccttagccgcaactaga	294798	-	see also 19196 line
43446	ARHGEF3	NM 019555.1	1513	ctccggagatgcttccataatc	294815	-	see also 19196 line
43447	ARHGEF3	NM 019555.1	1514	tcogaggatagcttccataatcc	294816	-	see also 19196 line
43448	ARHGEF4	NM 015320.2	2130	ggcgcgacgtgtgtactacaag	294825	-	see also 19197 line
43449	ARHGEF4	NM 015320.2	2030	ggggagctgactcgaagtacaca	294822	-	see also 19197 line
43450	ARHGEF6	NM 004840.1	1528	aacgggtgtagactagattagtg	294865	-	see also 3355 line
43451	ARHGEF6	NM 004840.1	47	atcgtgacatggcttatcttt	294827	-	see also 3355 line
43452	FARP1	NM 005766.1	1692	gtctaccacggagcgaacatact	294923	-	see also 19199 line
43453	FARP1	NM 005766.1	703	ggcgtcgcttagagatgtatgg	294905	-	see also 19199 line
43454	FARP1	NM 005766.1	702	tgccgcgtcgcttagagatgtatg	294904	-	see also 19199 line
43455	FBXO8	NM 012180.1	1139	taaccgtcgctcgtctcaaaata	294972	-	see also 5182 line
43456	FBXO8	NM 012180.1	1141	ccgtcgctcgtctcaaaataatt	294974	-	see also 5182 line
43457	FBXO8	NM 012180.1	380	ttctaaccacatcatctgtaaac	294946	-	see also 5182 line
43458	GBF1	NM 004193.1	2914	ggctgggttagggagaactatgt	295044	-	see also 19201 line
43459	GBF1	NM 004193.1	2306	atccacgggaactaatgaatt	295032	-	see also 19201 line
43460	PSCD1	NM 004762.1	608	tcagtcacgggatacttgttac	295084	-	see also 19202 line
43461	PSCD1	NM 004762.1	1220	tgctcgacgacgggaagaaagag	295093	-	see also 19202 line
43462	PSCD1	NM 004762.1	607	ttccagtcacgggatacttgtta	295083	-	see also 19202 line
43463	PSCD2	NM 004228.3	1107	cggaaacccggaactgttgttaact	295096	-	see also 19203 line
43464	PSCD2	NM 004228.3	310	agcccaatgagggcagtaagacc	295095	-	see also 19203 line
43465	PSCD4	NM 013385.2	1076	aagggaccacgggaattatcc	295107	-	see also 19204 line
43466	PSCD4	NM 013385.2	224	agcgggagagcgggaagattaca	295100	-	see also 19204 line
43467	RAB2L	NM 004761.2	335	accgtcaacagccgccaatctcg	295114	-	see also 19205 line
43468	RAB2L	NM 004761.2	338	gtcaacagccgccaatctcgacc	295115	-	see also 19205 line
43469	RASGRF1	NM 002891.3	3223	aggaacccctatatcatgaanaac	295171	-	see also 1929 line
43470	RASGRF1	NM 002891.3	3602	aggaaggagcggcccaattcacag	295176	-	see also 1929 line
43471	DELGEF	NM 012139.2	694	gagtgacaggtctagagaattct	295192	-	see also 19207 line
43472	DELGEF	NM 012139.2	516	cagccattgagctccataaaga	295189	-	see also 19207 line
43473	WBSCR16	NM 030798.2	517	aacgagggctacgagatgtgt	295206	-	see also 19208 line
43474	WBSCR16	NM 030798.2	275	gcctgggggtgcttcccttgt	295199	-	see also 19208 line
43475	RIN2	NM 018993.2	2245	tacttgacaagcggcatagagc	295240	-	see also 7644 line
43476	RGL	NM 015149.2	537	gtggaagatcatgttogaatag	295253	-	see also 19210 line

図46 (続き)

1170

43477	RGL	NM_015149.2	979	atgaatcgcttcataactaagg	295264	-	see also 19210 line
43478	ABR	NM_001092.3	1831	cgccgtcttcggtgaagatca	295316	-	see also 19211 line
43479	ABR	NM_001092.3	1728	ggcacaggacgtgattgagatg	295313	-	see also 19211 line
43480	ARFGEF2	NM_006420.1	2402	atoggggtataaatgatatgtaa	295368	-	see also 19212 line
43481	ARFGEF2	NM_006420.1	4327	tggcgccgatcaggtaacaattg	295408	-	see also 19212 line
43482	ARHGEF7	NM_003899.2	1590	agcattgattgagcggatattagt	295462	-	see also 2656 line
43483	ARHGEF7	NM_003899.2	921	atgctgctacagcttttagaaga	295448	-	see also 2656 line
43484	BCAR3	NM_003567.1	2193	ggcgttggacgttaattggagc	295514	-	see also 19214 line
43485	BCAR3	NM_003567.1	2484	aactgcctctctgcgttaaatgg	295521	-	see also 19214 line
43486	BCAR3	NM_003567.1	1929	agcgccactctgagtaagatca	295509	-	see also 19214 line
43487	BIG1	NM_006421.2	416	gtctcgcatagtttagtacctct	295526	-	see also 19215 line
43488	BIG1	NM_006421.2	5623	ctcggaatogggagtagttttca	295668	-	see also 19215 line
43489	ECT2	NM_018098.4	438	gtgcgcgttgattgtacaagt	295686	-	see also 7254 line
43490	ECT2	NM_018098.4	1065	atcgcaaacgacgtcgtttaaaa	295712	-	see also 7254 line
43491	ECT2	NM_018098.4	1066	tgcgaacgacgtcgtttaaaag	295713	-	see also 7254 line
43492	FLJ10244	NM_018037.1	421	tgcgggtcagataacattaatgg	295774	-	see also 7215 line
43493	GPIG4	NM_152545.1	1015	gacgtagctcgggagtttttaa	295854	-	see also 19218 line
43494	GPIG4	NM_152545.1	1086	gagccagctctcgcactaaaaa	295858	-	see also 19218 line
43495	GPIG4	NM_152545.1	344	tactcagttctcggtattttatg	295835	-	see also 19218 line
43496	HAPIP	NM_003947.1	321	tgcggaaactctgacgtatttg	295877	-	see also 19219 line
43497	HAPIP	NM_003947.1	2156	cagcagaccgccactagatgc	295884	-	see also 19219 line
43498	KIAA1010	NM_015221.1	4457	gtcaagacgtcgaagaagtgt	296036	-	see also 19220 line
43499	KIAA1010	NM_015221.1	2781	gggtaccgctgtgtctaagg	296003	-	see also 19220 line
43500	Link-GEFII	NM_016339.1	245	atctatacttctaattatgaag	296046	-	see also 19221 line
43501	Link-GEFII	NM_016339.1	1413	ggcctatgtgcgcagtttcagg	296056	-	see also 19221 line
43502	LOC22100	NM_145313.1	272	acccgataaggagctacatcttc	296058	-	see also 19222 line
43503	LOC22100	NM_145313.1	273	cccgataggacgtacatcttca	296059	-	see also 19222 line
43504	LOC22100	NM_145313.1	1281	ggcgaacgggcacattaaacttta	296068	-	see also 19222 line
43505	MCF2	NM_005369.2	2413	gacagataccggtacacagttt	296140	-	see also 3742 line
43506	MCF2	NM_005369.2	2415	cagatacccgctacacagtttta	296141	-	see also 3742 line
43507	MCF2L	NM_024979.2	468	acggcgacgggacaaatggaco	296160	-	see also 19224 line
43508	MCF2L	NM_024979.2	669	tacacggttacatcgataagtcg	296171	-	see also 19224 line
43509	NET1	NM_005863.2	916	ctggaagtcgcctagtaaaatc	296216	-	see also 19225 line
43510	NET1	NM_005863.2	191	gacatacagagtcctagatgtca	296197	-	see also 19225 line
43511	NET1	NM_005863.2	914	ccctcgaagtcgcctagtaaat	296215	-	see also 19225 line
43512	PDZGEF1	NM_014247.1	2925	cgggtacgctgtagttctcttct	296309	-	see also 19226 line
43513	PDZGEF1	NM_014247.1	3687	tccgagggccgaggtctatatgc	296326	-	see also 19226 line
43514	PDZGEF2	NM_016340.1	1757	gtcatctccggtattgaattt	296404	-	see also 6823 line
43515	PDZGEF2	NM_016340.1	2577	gacgggtgcatccgacacattt	296420	-	see also 6823 line
43516	PL6	NM_007024.4	1040	ctctccagttgggtatatctcg	296451	-	signal_transduction -
43517	PL6	NM_007024.4	1452	cccgaatccagtcctaatcacc	296453	-	see also 43516 line
43518	PL6	NM_007024.4	1450	tggcccaagaatccagtcataatca	296452	-	see also 43516 line
43519	RALGDS	NM_006266.1	1440	aagaactctctgctacgtgtgc	296470	-	see also 4357 line
43520	RALGPS1	NM_014636.1	1054	aagtcgctacgctacattgaaga	296484	-	see also 5810 line

図46 (続き)

1171

43521	RALGPS1	NM_014636.1	1051	ctgaagtccgtacgtacattga	296483	-	see also 5810 line
43522	RASGRF2	NM_006909.1	2424	cccacgggtggatctgtgtaaca	296583	-	see also 4847 line
43523	RASGRF2	NM_006909.1	2426	cacgcgtggtatctgtgtaacaag	296584	-	see also 4847 line
43524	RASGRP4	NM_052949.2	248	caggaatgcacccggaataatagg	296610	-	signal transduction, kinase related, -
43525	Rgr	NM_153615.1	1764	tccctgtgtgggtctgttaaaga	296624	-	see also 19231 line
43526	Rgr	NM_153615.1	1560	tgggaacacgcattacaatgc	296621	-	see also 19231 line
43527	SOS2	NM_006939.1	1632	tctgtactcttagatcgatgt	296675	-	see also 19232 line
43528	SOS2	NM_006939.1	2484	atgattgccataccaaaatct	296697	-	see also 19232 line
43529	ODC42EP2	NM_006779.2	559	tccgccacaccattcatattgg	296731	-	-
43530	ODC42EP2	NM_006779.2	456	caccaaggtgccatctatctga	296730	-	see also 43529 line
43531	GRAF	NM_015071.2	334	aacggatacggatgattggaat	296738	-	see also 19233 line
43532	GRAF	NM_015071.2	171	ctcataagcgcgtcaagaattt	296732	-	see also 19233 line
43533	MIG-6	NM_018948.2	1127	tacttcggagccattatgtagtg	296805	-	see also 19234 line
43534	MIG-6	NM_018948.2	423	tccaaatctgtccgatgaatgg	296782	-	see also 19234 line
43535	MIG-6	NM_018948.2	1028	tctctaaactccgatgaagaca	296801	-	see also 19234 line
43536	OPHN1	NM_002547.1	2394	cacaaacccaatcacgatttcaaa	296855	-	see also 1641 line
43537	OPHN1	NM_002547.1	948	atggtacacaatgctagtattt	296831	-	see also 1641 line
43538	PARG1	NM_004815.2	2521	tctcgatgtacaaggaattata	296944	-	see also 3345 line
43539	PARG1	NM_004815.2	336	tggagctoaagtccttaagttc	296864	-	see also 3345 line
43540	IQGAP3	NM_178229.3	3495	tccgtatggggtgcgattgtgg	297022	-	see also 19237 line
43541	IQGAP3	NM_178229.3	2259	agccaacgctggcgtttgtatcc	297002	-	see also 19237 line
43542	RASA1	NM_002890.1	961	aeggcgtgtacagagctattctac	297048	-	see also 1924 line
43543	RASA1	NM_002890.1	1505	atccgtcgtataaacaagaagtc	297070	-	see also 1924 line
43544	RASA2	NM_006506.2	2104	aggtgtgagccggtatgcaatcaaaa	297205	-	see also 4550 line
43545	RASA2	NM_006506.2	916	ctgggtctcttgattaaatat	297158	-	see also 4550 line
43546	RASA2	NM_004841.2	1973	gactaatctacgccaatacaac	297276	-	see also 19240 line
43547	RASA2	NM_004841.2	157	ccctctgtacagcggagtatctca	297217	-	see also 19240 line
43548	ARHGDIB	NM_001175.1	718	ggaggtggaacctgtcgatttaag	297307	-	see also 19241 line
43549	ARHGDIB	NM_001175.1	722	gtgggaacctgtcgatttaagag	297308	-	see also 19241 line
43550	ARHGDIG	NM_001176.1	430	aaggaaggtgtgtattacagagt	297309	-	see also 19242 line
43551	GDJ2	NM_001494.2	329	aggatcaccaccccgagtcattgg	297314	-	see also 19243 line
43552	GDJ2	NM_001494.2	204	atcctgtcaggtataatgtcagt	297312	-	see also 19243 line
43553	GDJ1	NM_001493.1	113	gacgggtctcacgaatgatcc	297350	-	see also 19244 line
43554	GDJ1	NM_001493.1	588	gagcttaccggaagtttgatct	297355	-	see also 19244 line
43555	MAPKAP1	NM_024117.2	1564	atctaagaacatcacgactataaa	297424	-	see also 8590 line
43556	MAPKAP1	NM_024117.2	1605	gacgtcgtctaccgcatgaat	297425	-	see also 8590 line
43557	RIN3	NM_024832.3	2610	ctgggggggggttctactatct	297441	-	see also 8771 line
43558	RIN3	NM_024832.3	2169	gaggagctogaagaactgttaga	297437	-	see also 8771 line
43559	RANGAP1	NM_002883.2	1487	gccacgcctcacgggaagattct	297454	-	see also 19246 line
43560	RANGAP1	NM_002883.2	1489	cacgcctcacgggaagattctgg	297455	-	see also 19246 line
43561	SIPA1	NM_006747.2	795	tgtgtgtactacacgaataact	297460	-	see also 19247 line
43562	SIPA1	NM_006747.2	2276	cgcacgtggagcgttcacattc	297465	-	see also 19247 line
43563	SIPA1	NM_006747.2	489	tctgatgggttgccactatgacg	297458	-	see also 19247 line

1172

図46 (続き)

43564	BART1	NM_012106.2	399	aacattacagcaccataaggatg	297467	-	see also 19248 line
43565	BART1	NM_012106.2	383	tggcagccttcaccacacatta	297466	-	see also 19248 line
43566	CCM1	NM_004912.3	2029	aacggatagacataaacagacc	297504	-	see also 3413 line
43567	DKFZp761	NM_032293.3	1196	acgtcggcgtaccctggatatgt	297565	-	see also 9145 line
43568	DKFZp761	NM_032293.3	2390	ggcctcaggtcggtatataact	297603	-	see also 9145 line
43569	MINK	NM_015716.2	2929	gagctcgttcacgattgttgg	297634	-	see also 6540 line
43570	MINK	NM_015716.2	3608	cagcggctcaaggtatctatgg	297637	-	see also 6540 line
43571	RPIP8	NM_006695.3	819	gaccccgctggctcgcattaca	297645	-	see also 19252 line
43572	RPIP8	NM_006695.3	1270	ccctcactgggaacgcttaattg	297647	-	see also 19252 line
43573	WAS	NM_000377.1	878	accgagcgcgagacctctaaact	297652	-	see also 19253 line
43574	WAS	NM_000377.1	122	cacgagaaccagcgactcttga	297648	-	see also 19253 line
43575	WAS	NM_000377.1	1327	gggagcgcttttgatcaaatcc	297656	-	see also 19253 line
43576	BNIP2	NM_004330.1	591	gacgagcgtggctgtgtcagg	297688	-	see also 19254 line
43577	BNIP2	NM_004330.1	902	cagcaaatgtagaaggttacg	297696	-	see also 19254 line
43578	C5orf5	NM_016603.1	3033	aacgttgcgggaattgaagaag	297778	-	see also 6940 line
43579	DOCK1	NM_001380.1	160	accgaggttaacgttacgaaaa	297791	-	see also 19255 line
43580	DOCK1	NM_001380.1	2761	cgtgaaccgaaccgtcaattcc	297862	-	see also 19255 line
43581	LGN	NM_013296.3	392	cgcgcgtgcgtgctcatctttg	297929	-	see also 5389 line
43582	LGN	NM_013296.3	625	ttgaagaaagccatagttgtgt	297941	-	see also 5389 line
43583	RAB3- GAP150	NM_012414.2	1342	agggtaccgcgagcgcacaaattg	298037	-	see also 19257 line
43584	RAB3- GAP150	NM_012414.2	1444	tccaagtcgagtagctcaattcc	298043	-	see also 19257 line
43585	RALBP1	NM_006788.2	707	agccgttttcggtgaattatag	298102	-	see also 19258 line
43586	RALBP1	NM_006788.2	706	cagccgttttcggtgaattatata	298101	-	see also 19258 line
43587	RAP1GA1	NM_002885.1	1107	tcccttgcgcgcgacatgatcg	298144	-	see also 19259 line
43588	RAP1GA1	NM_002885.1	2127	tgcgtgcccgcgagatcaagatcc	298155	-	see also 19259 line
43589	RAP1GDS	NM_021159.3	1510	tgccttatacgacacacagtaaat	298195	-	see also 8111 line
43590	RAP1GDS	NM_021159.3	1511	gccctatacgacacacagtaaat	298196	-	see also 8111 line
43591	RASA3	NM_007368.2	1939	tgcgttgacacacacagtaatt	298228	-	see also 5094 line
43592	RASA3	NM_007368.2	979	tgcgttgacacacacagtaacacg	298215	-	see also 5094 line
43593	SH3BP1	NM_018957.2	536	ctgacctgacacacttggtaacc	298246	-	see also 19262 line
43594	SH3BP1	NM_018957.2	379	ctcgttcaggcaacacaaagattc	298245	-	see also 19262 line
43595	SRGAP2	NM_014850.1	2856	gagcgtcggcagcatcaactacc	298278	-	see also 6050 line
43596	SRGAP2	NM_014850.1	1787	acccctctgtggcagcatcaaat	298269	-	see also 6050 line
43597	STARD13	NM_052851.1	1767	ggcgactcggatgggaacagtttc	298300	-	see also 19264 line
43598	STARD13	NM_052851.1	2583	agggtcagcgaacatgatcatg	298318	-	see also 19264 line
43599	STARD8	NM_014725.2	740	agccaagaagcgccatcgtaacc	298326	-	see also 5915 line
43600	STARD8	NM_014725.2	2073	taccggggacagcagctattgg	298339	-	see also 5915 line
43601	STARD8	NM_014725.2	1192	gccatggcagcagcatatgaaca	298331	-	see also 5915 line
43602	TBC1D2	NM_018421.1	2632	tgcggacagctcatatagaaca	298349	-	see also 19266 line
43603	TBC1D2	NM_018421.1	2464	gaccatcatgcccgctgattact	298348	-	see also 19266 line

図46 (続き)

1173

43604	TSC2	NM_000548.2	3241	acggggaccocggctgtactagg	298387	-	see also 19267 line
43605	TSC2	NM_000548.2	722	gcctccgcgtgttcattgtacc	298363	-	see also 19267 line
43606	BCL2L13	NM_015367.1	341	ttcggcagagtacatcatcagc	298400	-	see also 19268 line
43607	BCL2L13	NM_015367.1	371	ctggggcactgtgttagtcttg	298402	-	see also 19268 line
43608	PSME1	NM_006263.2	511	acctggagtgagatggttaaca	298415	-	see also 19269 line
43609	PSME1	NM_006263.2	246	aagccaacttggagcaatctgaag	298412	-	see also 19269 line
43610	PSME3	NM_005789.2	872	agccttggctcctcatcatcaga	298438	-	see also 19270 line
43611	PSME3	NM_005789.2	869	atcagccttggctcctcatcatc	298437	-	see also 19270 line
43612	PSME3	NM_005789.2	595	acctgagatccggctgtgttgattg	298431	-	see also 19270 line
43613	PPP2R4	NM_021131.3	332	cgtgactacatcggattcatcc	298444	-	see also 19271 line
43614	PPP2R4	NM_021131.3	984	atgaagactggcccattgacaga	298459	-	see also 19271 line
43615	PLAA	NM_004253.2	518	ggcagtgctctgaagtattatta	298479	-	see also 2857 line
43616	PLAA	NM_004253.2	720	gtgcagtgatggcattattaga	298486	-	see also 2857 line
43617	GM2A	NM_000405.3	628	ccgggaactaccgcctagagagc	298553	-	see also 322 line
43618	GM2A	NM_000405.3	262	aggacccctcgggtgctcagaagc	298548	-	see also 322 line
43619	CLPS	NM_001832.2	244	gacgtctatgggatttactaca	298555	-	see also 19274 line
43620	CLPS	NM_001832.2	246	cgtcttatgggatttactacaag	298556	-	see also 19274 line
43621	PPP1R12B	NM_002481.2	2961	gcgagccttggagcgaataatgt	298587	-	see also 19275 line
43622	PPP1R12B	NM_002481.2	2065	cagacaagagggtctactcaagg	298572	-	see also 19275 line
43623	CABYR	NM_012189.2	509	caccatgttccatcagtttatg	298597	-	see also 5184 line
43624	CABYR	NM_012189.2	416	aacatctgaatcattaaagtao	298596	-	see also 5184 line
43625	SPA17	NM_017425.2	429	gacatcagtcacattcttagact	298652	-	see also 7001 line
43626	SPA17	NM_017425.2	200	ggctgacacgcgagattcttgaga	298647	-	see also 7001 line
43627	IGBP1	NM_001551.1	288	aaccacagcagcgtctagatca	298663	-	see also 19278 line
43628	IGBP1	NM_001551.1	682	ggagggcatcaactcttaactca	298679	-	see also 19278 line
43629	PPP2R2B	NM_004576.2	1810	gtggcggctacaaataacctata	298712	-	see also 3114 line
43630	PPP2R2B	NM_004576.2	657	gggggggtcgggttgtaatttc	298685	-	see also 3114 line
43631	PPP2R2C	NM_020416.2	900	ctcgtgtccgcgcgtgaagtca	298736	-	see also 7868 line
43632	PPP2R2C	NM_020416.2	409	aagattaccgaacagagataaaag	298730	-	see also 7868 line
43633	PPP2R2C	NM_020416.2	945	caccgggactaccttaccagta	298739	-	see also 7868 line
43634	PPP2R5A	NM_006243.2	1042	gcctcacatcacgttggatatg	298751	-	see also 19281 line
43635	PPP2R5A	NM_006243.2	1101	agcctagcagtcgaaacagatag	298752	-	see also 19281 line
43636	PPP2R5B	NM_006244.2	1301	ttctcgttcctctatgaattc	298782	-	see also 4326 line
43637	PPP2R5B	NM_006244.2	1132	ccctcgttggccaaagagatatgt	298779	-	see also 4326 line
43638	PPP2R5B	NM_006244.2	1131	gcctcgttggccaaagagatatg	298778	-	see also 4326 line
43639	PPP2R5C	NM_002719.2	1224	ttccttgaccgaactcaaaaga	298789	-	phosphatase, -
43640	PPP2R5C	NM_002719.2	178	ccggtgtccttctccatattcg	298788	-	signal transduction
43641	PPP2R5D	NM_006245.2	811	ctctctagactatttgacagt	298810	-	see also 43639 line
43642	PPP2R5D	NM_006245.2	1405	ccagagtcctcccatcatgttc	298816	-	see also 4327 line
43643	PPP1R7	NM_002712.1	602	accgcatccgggcaatcgaaat	298870	-	see also 19284 line
43644	PPP1R7	NM_002712.1	604	cgcctccgggcaatcgaaat	298872	-	see also 19284 line
43645	PPP1R7	NM_002712.1	601	aaccgcatccgggcaatcgaaat	298869	-	see also 19284 line
43646	PPP4R1	NM_005134.1	1893	acctcaggcgtgtgttagatcagt	298918	-	see also 19285 line

図46 (続き)

1174

43647	PPP4R1	NM_005134.1	1897	cagcgctgttttagatcagtgattt	298919	-	see also 19285 line
43648	CAPON	NM_014697.1	554	gcggatagcgtatgagtttaa	298951	-	see also 19286 line
43649	CAPON	NM_014697.1	553	cggcgatagcgtatgagtttaa	298950	-	see also 19286 line
43650	CAPON	NM_014697.1	1386	tgcgtgcatacagcttttgcgc	298961	-	see also 19286 line
43651	SLN	NM_003063.1	199	aactcaactattgcttgattac	298968	-	see also 19287 line
43652	SLN	NM_003063.1	188	agctgttctcaactcactatt	298967	-	see also 19287 line
43653	DCPS	NM_014026.3	880	ctgaagcggaccggattgttc	298974	-	see also 19288 line
43654	DCPS	NM_014026.3	964	agctcgtactgtactgtatgc	298977	-	see also 19288 line
43655	DCPS	NM_014026.3	961	agcagctcgtactgtactgtg	298976	-	see also 19288 line
43656	DNAJ1	NM_001539.1	632	ggggagcggatcagctctaaaga	298984	-	see also 19289 line
43657	DNAJ1	NM_001539.1	1032	agggctgcctaatcactgaatt	298997	-	see also 19289 line
43658	DNAJ1	NM_006145.1	877	gagatcacccgtcgtattcaaaag	299013	-	see also 19290 line
43659	DNAJ1	NM_006145.1	910	gcctggcagtcggcgaaagttc	299018	-	see also 19290 line
43660	DNAJ2	NM_006736.4	670	tctgctctgtttctacatcacc	299025	-	see also 19291 line
43661	DNAJ2	NM_006736.4	664	gtcttttgcctctgtttctaca	299024	-	see also 19291 line
43662	DNAJ2	NM_007034.3	433	ggcgatcctcagctgctacattgc	299032	-	see also 4923 line
43663	DNAJ4	NM_007034.3	1079	gtgtgacccctcttaataagaatt	299050	-	see also 4923 line
43664	DNAJ5	NM_012266.2	648	tctgcctgttttggctcaatgg	299057	-	see also 5244 line
43665	DNAJ6	NM_005494.2	194	tgcctcaaccggaggatataaaa	299062	-	see also 19293 line
43666	DNAJ6	NM_005494.2	778	tgttgcgaacggctcaagaaga	299068	-	see also 19293 line
43667	FLJ32389	NM_144617.1	265	cactctgcggaggaaattgc	299075	-	heat shock protein -
43668	HSPB3	NM_006308.1	486	tgaatgagcacaggtttttatcca	299079	-	see also 19294 line
43669	HSPB3	NM_006308.1	515	tcaaccgcagatcaaaactacc	299082	-	see also 19294 line
43670	HspB9	NM_033194.1	123	agcggtcagggaggacaatgacc	299085	-	-
43671	HSPF1	NM_002157.1	187	tggatcggtgtcttaaaaggaaag	299086	-	see also 19295 line
43672	TBCG	NM_003192.1	625	tgcaccagcagcagctttttg	299092	-	see also 2158 line
43673	TBCG	NM_003192.1	660	aactgcacagctcagacttatgg	299094	-	see also 2158 line
43674	TBCG	NM_003192.1	628	accagcgcgcgcttctttgaac	299093	-	see also 2158 line
43675	TBCD	NM_005993.2	278	ctggagcggctccggttaaat	299107	-	see also 19297 line
43676	TBCD	NM_005993.2	288	tccgctgaataatggacaataac	299110	-	see also 19297 line
43677	TBCE	NM_003193.2	289	tctgcgaacaagaagtaatttt	299161	-	see also 19298 line
43678	TBCE	NM_003193.2	412	tggagactatcgggtttgaactct	299166	-	see also 19298 line
43679	TBCE	NM_003193.2	660	ccctcgggttcagtttaactgg	299176	-	see also 19298 line
43680	TBCA	NM_004607.1	58	tctcgcgtggagacagatcaaga	299213	-	tubulin-specific chaperone
43681	C19orf2	NM_003796.2	561	tgtctataaacccgattccaac	299224	-	see also 19299 line
43682	C19orf2	NM_003796.2	1060	aagagggtccgaataaatactgg	299239	-	see also 19299 line
43683	CABC1	NM_020247.3	1645	tggggcaacgggggaataatgaca	299256	-	see also 19300 line
43684	CABC1	NM_020247.3	1084	ccccaaactggcggggcaagtgg	299252	-	see also 19300 line
43685	GJA30	NM_016013.1	959	tacgattggctccagttcaatcac	299272	-	see also 6614 line
43686	GJA30	NM_016013.1	605	tctgataaagaataatagataga	299267	-	see also 6614 line
43687	CKAP1	NM_001281.1	639	tggattgggtccgctatgatga	299296	-	see also 19302 line
43688	CKAP1	NM_001281.1	88	caccacaggtgaccggttttcac	299289	-	see also 19302 line
43689	CLN3	NM_000086.1	805	tctcggcagctatttctgttg	299301	-	see also 19303 line

図46 (続き)

1175

43690	CLN3	NM_000086.1	454	tcccaacactcgtcatcaaatg	299300	-	see also 19303 line
43691	DNAJA2	NM_005880.2	996	aaggagatgcgcgagtagtcta	299327	-	see also 4088 line
43692	DNAJA2	NM_005880.2	997	agagatgcgcgagtagtcta	299328	-	see also 4088 line
43693	DNAJA3	NM_005147.3	169	cccccggagcgtcgtgacatga	299339	-	see also 19305 line
43694	DNAJA3	NM_005147.3	1198	cggctacggagacacacacaccc	299351	-	see also 19305 line
43695	DNAJA4	NM_018602.2	1088	ttggcaatcgaattcttatt	299370	-	see also 7531 line
43696	DNAJA4	NM_018602.2	371	ggcgagaagttaaacatcatc	299357	-	see also 7531 line
43697	DNAJB11	NM_016306.3	404	aacggaaacagctacgatacttat	299382	-	see also 6801 line
43698	DNAJB11	NM_016306.3	739	gacgaatgccctaatgtcaaaact	299394	-	see also 6801 line
43699	DNAJB11	NM_016306.3	222	tgcggagcagagattctataaga	299375	-	see also 6801 line
43700	DNAJB12	NM_017626.1	330	ctgtgaaaagggtcaagcaatgt	299409	-	see also 19308 line
43701	DNAJB12	NM_017626.1	896	cacctgggtgtgtctactatgt	299412	-	see also 19308 line
43702	DNAJB8	NM_153330.1	775	ctggcagctcggggttcaagtcg	299416	-	see also 19309 line
43703	DNAJB8	NM_153330.1	656	ctggcagctcggggttcaagtcg	299415	-	see also 19309 line
43704	DNAJB9	NM_012328.1	751	ctctaccaatcagcatcacgtac	299429	-	see also 19310 line
43705	DNAJB9	NM_012328.1	595	tggatccaagaagcgttttgaaa	299428	-	see also 19310 line
43706	DNAJB9	NM_012328.1	438	atgctaataagacgaaagagtagt	299423	-	see also 19310 line
43707	DNAJB8	NM_014280.1	142	ctgggttctaacttcgaaaaatc	299434	-	see also 19312 line
43708	DNAJB8	NM_014280.1	284	atotttgggtgcatctgacaaaa	299437	-	see also 19312 line
43709	DNAJB8	NM_014280.1	425	tacgtggaaacacactgtgaaga	299439	-	see also 19312 line
43710	GRPEL1	NM_025196.2	120	ttgtgcacagccacgaacaaaa	299443	-	see also 19312 line
43711	GRPEL1	NM_025196.2	325	tgtgtggagagagcaaaattatc	299445	-	see also 43710 line
43712	GRPEL1	NM_025196.2	304	tacggcagagagcagcaaaatg	299444	-	see also 43710 line
43713	HKE2	NM_014260.2	293	ctgggttcggtgctagtcaaca	299452	-	see also 19313 line
43714	HKE2	NM_014260.2	269	gggtcaaatcgtgtgttttaact	299450	-	see also 19313 line
43715	JDP1	NM_021800.1	221	aactatcttcgtgtgaacaaatc	299458	-	see also 19314 line
43716	JDP1	NM_021800.1	622	aagttaagtctcccccgaacaaatc	299461	-	see also 19314 line
43717	JDP1	NM_021800.1	631	tcccccgaacattcagattcttc	299462	-	see also 19314 line
43718	MGC26226	NM_033105.3	481	aacaaagccacgcaaatcttac	299469	-	see also 19315 line
43719	MGC26226	NM_033105.3	491	acgcaatacttaccgacatttca	299470	-	see also 19315 line
43720	PFDN2	NM_012394.2	188	agcacagcctagtgtacataca	299474	-	see also 19316 line
43721	PFDN2	NM_012394.2	262	ctgggtggagcgaactgtcaaga	299476	-	see also 19316 line
43722	SCAP	NM_012235.1	1150	ggcgcagcctcttcaagctattac	299480	-	see also 19317 line
43723	SCAP	NM_012235.1	1151	ggcgcagcctcttcaagctattac	299481	-	see also 19317 line
43724	SCO1	NM_004589.1	81	tgcctcgcggactcaggttttgg	299491	-	see also 19318 line
43725	SCO1	NM_004589.1	444	ctcattactggggagcgtgaaact	299496	-	see also 19318 line
43726	SCO1	NM_004589.1	448	tactggggagcgtgaaactgaca	299497	-	see also 19318 line
43727	SIL1	NM_022464.3	591	tgttacggctgatacaacagttc	299513	-	see also 19319 line
43728	SIL1	NM_022464.3	648	ctgcgtctttgattgtaatat	299519	-	see also 19319 line
43729	WBSR18	NM_032317.2	495	ggcccaacccagcagatgtcaac	299535	-	see also 19320 line
43730	WBSR18	NM_032317.2	341	acctccgtcgcgaagtatgatcg	299534	-	see also 19320 line
43731	APBP2	NM_006380.2	1921	cgtttgcagagatggcaatttc	299587	-	see also 4473 line
43732	Dlc2	NM_080677.1	428	ttgtatcgtgggcccgaattttg	299592	-	see also 19322 line
43733	Dlc2	NM_080677.1	272	ccggaaaggcagtgatcaagaacg	299590	-	see also 19322 line

図46 (続き)

1176

43734	DNCI2	NM_001378.1	982	gagaaagctgttcaaaagcatcg	299600	-	see also 947 line
43735	DNCI2	NM_001378.1	1046	tactctgtgcttctctataaac	299606	-	see also 947 line
43736	FLJ32752	NM_144666.1	2576	cgtaacaagcgcaccttgattgc	299651	-	see also 19325 line
43737	FLJ32752	NM_144666.1	2791	gcgaagcgcgacgagtgatgtacc	299653	-	see also 19325 line
43738	FLJ40427	NM_178504.3	1170	tgaaaagcgcctacacgatattta	299694	-	see also 19326 line
43739	FLJ40427	NM_178504.3	370	taggccttgcccttaattgattg	299664	-	see also 19326 line
43740	KLC2	NM_022822.1	1393	agcggaggaagaaacaggaag	299771	-	see also 19327 line
43741	KLC2	NM_022822.1	1811	cagttagatgcttgtaaaagc	299773	-	see also 19327 line
43742	KNS2	NM_005552.3	1736	tgcctagaggtctcgttaaacagc	299804	-	see also 19328 line
43743	KNS2	NM_005552.3	1113	tggctattctgagaaaacttt	299786	-	see also 19328 line
43744	KNSL8	NM_138343.1	270	ttgcgcgttctatggaaaaacatt	299806	-	see also 19329 line
43745	KNSL8	NM_138343.1	271	tcgcgcgttctatggaaaaacattg	299807	-	see also 19329 line
43746	TCOTL1	NM_006519.1	279	cactgtgcgtatggagaaataaga	299812	-	microtubule motor -
43747	DCIN1	NM_004082.2	2881	cccatgagcgcctcttgatttc	299824	-	see also 19330 line
43748	DCIN1	NM_004082.2	4232	agctggagcgcgtgtatcgttaaga	299837	-	see also 19330 line
43749	DCIN1	NM_004082.2	1797	gacgagctcactactgacttaga	299816	-	see also 19330 line
43750	DCIN2	NM_006400.3	1272	gacaacatcgtgaaacactgg	299855	-	see also 19331 line
43751	DCIN2	NM_006400.3	352	ttctcagatcgtatggaaaaac	299847	-	see also 19331 line
43752	DNAI1	NM_012144.2	552	ggcagcattaccgcgatgaatta	299861	-	see also 19332 line
43753	DNAI1	NM_012144.2	1912	gaccgcgtttcattctatgacc	299873	-	see also 19332 line
43754	DNAI2	NM_023036.1	881	tggcatgagcagcagcttcatc	299884	-	see also 19333 line
43755	DNAI2	NM_023036.1	1009	ggctgctcaatggacagatagc	299889	-	see also 19333 line
43756	DNAI1	NM_003462.3	460	ctcacagtttttgatgattga	299908	-	see also 19334 line
43757	DNAI1	NM_003462.3	381	tcacagagcagcttagacttaag	299906	-	see also 19334 line
43758	DNAI1	NM_004111.1	890	gacggacaatacgggaattga	299923	-	see also 1934 line
43759	DNAI1	NM_004111.1	1531	aacggagagcgtcaataacttcg	299935	-	see also 1934 line
43760	CIAO1	NM_004804.2	827	cgctggcgtctttagtgatga	299946	-	see also 19335 line
43761	CIAO1	NM_004804.2	412	gtccctcgcgtaattacatgg	299940	-	see also 19335 line
43762	CIAO1	NM_004804.2	822	ggcagcgcctggcgtctttagt	299945	-	see also 19335 line
43763	RBBP8	NM_002894.1	1288	tggagctacctatagatcaaaa	299975	-	see also 19337 line
43764	RBBP8	NM_002894.1	839	aaccccatgtccgatacataga	299961	-	see also 19337 line
43765	RBBP8	NM_002894.1	2058	ctctacgtccacgtgaagttg	299999	-	see also 19337 line
43766	SMARCB1	NM_003073.2	339	tgcctgtcaatggtaaaaaa	300024	-	see also 2060 line
43767	SMARCB1	NM_003073.2	450	tggcaacgatgagaagtacaagg	300026	-	see also 2060 line
43768	THRSP	NM_003251.1	60	tgcagccgggtgcacacacatgg	300030	-	see also 19339 line
43769	THRSP	NM_003251.1	150	ggctgagccctcgtatcttaca	300031	-	see also 19339 line
43770	RPC32	NM_006467.1	183	aggacgtgtcttatacctta	300034	-	see also 19340 line
43771	RPC32	NM_006467.1	182	ggagacgtcgtcttataccttt	300033	-	see also 19340 line
43772	RPC62	NM_006468.4	409	gccggatttcgaatgcttaga	300053	-	see also 19341 line
43773	RPC62	NM_006468.4	408	agccgggtatttcgaatgcttag	300052	-	see also 19341 line
43774	RPC62	NM_006468.4	433	atcccggtacatctactacc	300055	-	see also 19341 line
43775	AES	NM_001130.5	521	tcggagctgaactctatcc	300102	-	see also 19342 line
43776	AES	NM_001130.5	518	cgctcccgagctgaactctatca	300100	-	see also 19342 line
43777	ASXL1	NM_015338.3	3626	atgtcggctccgccaaagatcc	300161	-	see also 19343 line

図46 (続き)

1177

43778	ASXL1	NM_015338.3	3111	tgatataccatccatccatgaatga	300155	-	see also 19343 line
43779	BCL3	NM_005178.2	340	caaccctataccocatgatgtgc	300182	-	see also 19344 line
43780	BCL3	NM_005178.2	502	ggcgggagctcgacatctacaac	300184	-	see also 19344 line
43781	BMI1	NM_005180.5	820	tgctgccaatgctctaatgaag	300200	-	see also 19345 line
43782	BMI1	NM_005180.5	1430	ggcaatagaacctgaaatcatc	300214	-	see also 19345 line
43783	BMI1	NM_005180.5	1428	ttgccaatagaacctogaaaatca	300213	-	see also 19345 line
43784	CCNH	NM_001239.2	830	ttgaaggatgcttacottttata	300251	-	see also 19347 line
43785	CCNH	NM_001239.2	471	ttgggtacggcttgatgtatttc	300244	-	see also 19347 line
43786	CCNT1	NM_001240.2	2216	aactcgtgctccatctcgaatga	300311	-	see also 811 line
43787	CCNT1	NM_001240.2	1366	gtcatgtgactagtgaatatta	300288	-	see also 811 line
43788	CCNT1	NM_001240.2	472	agcgtttaactgctcacaattg	300269	-	see also 811 line
43789	CCNT2	NM_001241.2	1356	aagcgttaactagaactcttga	300364	-	see also 19349 line
43790	CCNT2	NM_001241.2	1797	caaggtgcgcagcgaataccac	300372	-	see also 19349 line
43791	DAT1	NM_018640.2	499	atcaaggaccgggtatcttctaaa	300379	-	see also 19350 line
43792	DAT1	NM_018640.2	825	gacggactacgaggaaggttaa	300384	-	see also 19350 line
43793	DAXX	NM_001350.2	1688	cgcatagtctaccatcttact	300400	-	see also 19351 line
43794	DAXX	NM_001350.2	812	cgcctcttgaggcactatgtga	300390	-	see also 19351 line
43795	FLJ10201	NM_018023.3	2543	tgcggactacgagcaactgcta	300468	-	see also 19352 line
43796	FLJ10201	NM_018023.3	3282	cacagtatcgggactgttaaga	300482	-	see also 19352 line
43797	GTf2H2	NM_001515.2	373	caccttatgtgtagtagtagg	300499	-	see also 19353 line
43798	GTf2H2	NM_001515.2	451	aagtgttggaatactttttaga	300502	-	see also 19353 line
43799	JAZF1	NM_175061.2	721	cccggtgtcggctgagattatc	300513	-	see also 19354 line
43800	JAZF1	NM_175061.2	635	tgtgtccgcgaaccattcaagt	300506	-	see also 19354 line
43801	JAZ1	NM_015355.1	1738	gtcgcaacgagcagtttaagaga	300542	-	see also 6386 line
43802	JAZ1	NM_015355.1	1110	aggcgttacagcttttagatgg	300519	-	see also 6386 line
43803	MADH9	NM_005905.2	848	gtgctggctgcctactatgaac	300561	-	see also 19356 line
43804	MADH9	NM_005905.2	905	ctcccgaagtgtgctcatagatg	300565	-	see also 19356 line
43805	MJD	NM_004993.2	362	ctcagatcgatcctataaatga	300591	-	see also 3484 line
43806	MJD	NM_004993.2	808	cagggtattcagctagatgac	300599	-	see also 3484 line
43807	MLLT3	NM_004529.1	1245	aacgttacccgccatttgatga	300640	-	see also 3082 line
43808	MLLT3	NM_004529.1	1765	cagcagatcgtgaacctataga	300655	-	see also 3082 line
43809	NCOA5	NM_020967.1	368	ttcgggagctgaggatctttaga	300667	-	see also 19359 line
43810	NCOA5	NM_020967.1	508	gaccgatacctacgaatggatga	300673	-	see also 19359 line
43811	NCOA5	NM_020967.1	499	ggctcttatcagcagatacctacg	300672	-	see also 19359 line
43812	PCQAP	NM_015889.2	278	ttcgtcgtgctgctatgaatgc	300705	-	see also 19360 line
43813	PCQAP	NM_015889.2	277	ttcgtcgtgctgctatgaatgc	300704	-	see also 19360 line
43814	PCQAP	NM_015889.2	193	ggcgaagaccggcgaataacc	300695	-	see also 19360 line
43815	RBL1	NM_002895.2	3076	aagcgtctgctgataaagtca	300802	-	see also 1930 line
43816	RBL1	NM_002895.2	1261	gagccgttacagagatgttggg	300748	-	see also 1930 line
43817	SEI1	NM_013376.1	421	cagtgtgctgacaactactgg	300807	-	see also 19362 line
43818	SEI1	NM_013376.1	665	acctctatgtgacatgaact	300810	-	see also 19362 line
43819	SIN3A	NM_015477.1	3561	acgtggagcgatcacatgaattca	300887	-	see also 6425 line
43820	SIN3A	NM_015477.1	2990	tcccgaagccgacggcaattga	300873	-	see also 6425 line
43821	SNAPC1	NM_003082.2	506	gtgatcgtgtgatgaactatc	300906	-	see also 2075 line

図46 (続き)

1178

43822	SNAPC1	NM_003082.2	703	aagaatccatccttaagtaaaa	300909	-	see also 2075 line
43823	TLE1	NM_005077.3	1476	agccatagagccctctgttaacc	300922	-	see also 19365 line
43824	TLE1	NM_005077.3	2059	cccgatgctgcactctctatgt	300929	-	see also 19365 line
43825	TLE2	NM_003260.3	318	gtgtacgctgcacattgaag	300935	-	see also 19366 line
43826	TLE2	NM_003260.3	375	cggtatctgcctcaagattacc	300939	-	see also 19366 line
43827	TLE3	NM_005078.1	1033	aggtcgtgcgggttaaacctcc	300956	-	see also 3546 line
43828	TRIP-Br2	NM_014755.1	1045	gacattgatactgcattgtatga	300973	-	see also 5946 line
43829	TRIP-Br2	NM_014755.1	480	gaccgtttaatacaacatgt	300970	-	see also 5946 line
43830	TRIP8	NM_004241.1	6334	aagggaatacttaagtcttga	301153	-	see also 19368 line
43831	TRIP8	NM_004241.1	4178	ctgcgatactaccagtgttcc	301073	-	see also 19368 line
43832	HSF2BP	NM_007031.1	363	tgccggacacatgggaactaaaga	301178	-	see also 19369 line
43833	HSF2BP	NM_007031.1	1311	ctcgcactctggagcataatgt	301208	-	see also 19369 line
43834	FLJ25348	NM_144569.2	1505	ctgcgcctgctctactcatacc	301213	-	see also 19370 line
43835	FLJ25348	NM_144569.2	1109	gagctcgggggacaaatcttcc	301212	-	see also 19370 line
43836	PWP1	NM_007062.1	441	tacggctctacgggagtaatgac	301228	-	see also 19371 line
43837	PWP1	NM_007062.1	445	gtctacgggagtaatgataaga	301229	-	see also 19371 line
43838	NASP	NM_002482.2	1950	cagaatggctgtactactaacagc	301276	-	see also 1588 line
43839	NASP	NM_002482.2	2201	cagacggtcttctctactcaaat	301285	-	see also 1588 line
43840	XROC4	NM_003401.2	874	ctgcttaagtaagatgattcc	301301	-	see also 19373 line
43841	XROC4	NM_003401.2	163	ctgaacccagtaataactatttt	301291	-	see also 19373 line
43842	ALKBH	NM_006020.1	511	gacgtaggctaccattataact	301310	-	see also 19374 line
43843	ALKBH	NM_006020.1	935	ctccgagagattcaatgtaga	301316	-	see also 19374 line
43844	FANCA	NM_000135.1	1825	ctccggtgctggtttatagat	301350	-	see also 120 line
43845	FANCA	NM_000135.1	1823	gactccggtggtggtttataga	301349	-	see also 120 line
43846	FANCA	NM_000135.1	1827	ccggtggtgctttatagatgt	301351	-	see also 121 line
43847	FANCC	NM_000136.1	796	gcgtccctgacagagttgtgt	301403	-	see also 121 line
43848	FANCC	NM_000136.1	1119	tgccatattccgggtttgtgatg	301413	-	see also 121 line
43849	FLJ10858	NM_018248.1	948	tgcaagctaccagactagaataac	301447	-	see also 19377 line
43850	FLJ10858	NM_018248.1	1561	cagatggccctgtactacttaaat	301474	-	see also 19377 line
43851	HUS1	NM_004507.2	171	accacttccacagaaatcagtaac	301483	-	see also 19378 line
43852	HUS1	NM_004507.2	178	cacagaatcagtaacatagatag	301484	-	see also 19378 line
43853	NEIL1	NM_024608.1	1300	agggcgcaagtcgccgcaaaaga	301510	-	-
43854	NEIL1	NM_024608.1	664	cggcatgtccggctcttttcagc	301509	-	see also 43853 line
43855	NEIL1	NM_024608.1	1309	gtcccgcaaaaagaaatccaaag	301511	-	see also 43853 line
43856	NEIL2	NM_145043.1	599	agggccgttggtgaggaatttc	301513	-	see also 19379 line
43857	NEIL2	NM_145043.1	1270	cagggtcagggaacatcattaaag	301522	-	see also 19379 line
43858	POLK	NM_016218.1	1367	tcttgggttaggtttcaacaca	301566	-	see also 19380 line
43859	POLK	NM_016218.1	2459	taccgcagccttacttattga	301605	-	see also 19380 line
43860	RAD9A	NM_004584.2	1015	atgcgaatggaaacacactatagg	301625	-	see also 19381 line
43861	RAD9A	NM_004584.2	1049	cgggggtgtgcctccattcc	301626	-	see also 19381 line
43862	RBBP4	NM_005610.1	1167	cggggccacagagttgttttta	301637	-	see also 19382 line
43863	RBBP4	NM_005610.1	1059	gtcaactcaaatgagactattt	301632	-	see also 19382 line
43864	ODC45L	NM_003504.3	407	aacgataccagatacaaatatct	301648	-	see also 2361 line
43865	GMNN	NM_015895.2	472	atcggaatgaccacttaacatct	301669	-	see also 19384 line

1179

図46 (続き)

43866	GMNN	NM_015895.2	920	tacggatgaagaagcactgtat	301685	-	see also 19384 line
43867	GMNN	NM_015895.2	592	atcatctctcagttatggaag	301677	-	see also 19384 line
43868	SPHAR	NM_006542.1	391	ctcattatgattggaag	301690	-	see also 19385 line
43869	SPHAR	NM_006542.1	383	ttcaatgtctcattatgata	301688	-	see also 19385 line
43870	REC8L1	NM_005132.1	651	tgggtggtatccggtctattct	301691	-	see also 19386 line
43871	REC8L1	NM_005132.1	659	atcgggtctattctcaaatg	301693	-	see also 19386 line
43872	CIDEA	NM_001279.2	562	gacggacagtttctctatctc	301712	-	see also 19387 line
43873	CIDEA	NM_001279.2	558	aggtacagggacagttctc	301711	-	see also 19387 line
43874	ODC40	NM_015891.2	949	atggactgtataatgaagctatg	301747	-	see also 19388 line
43875	ODC40	NM_015891.2	246	tgcctcaaaagaattgaatata	301721	-	see also 19388 line
43876	GRNKL1	NM_016652.3	825	tacggagcgtgcttagataga	301784	-	see also 19389 line
43877	CRNKL1	NM_016652.3	944	aacgctgctcaggttaatacgt	301789	-	see also 19389 line
43878	GEMIN4	NM_015721.1	1830	atgggtcatgcctcaaaagaaac	301857	-	see also 19390 line
43879	GEMIN4	NM_015721.1	2292	tctggtcctcaccgaagttaga	301867	-	see also 19390 line
43880	ARL6IP4	NM_016638.1	608	tggcgaaggtctcagggaaatcg	301874	-	see also 19391 line
43881	ARL6IP4	NM_016638.1	613	aggtcctagagaaatcgttaacc	301875	-	see also 19391 line
43882	LUC7A	NM_016424.2	1217	gcccggatcgaaagtcataaag	301912	-	see also 6850 line
43883	LUC7A	NM_016424.2	678	aacgtogacaattgaagcttgg	301895	-	see also 6850 line
43884	FLJ21172	NM_024805.1	199	agccgagatcgtgcctatttcc	301917	-	see also 19393 line
43885	FLJ21172	NM_024805.1	327	gggttctcactgacttacaac	301920	-	see also 19393 line
43886	RNU3IP2	NM_004704.2	1402	atcaaaaggctcggaaatctgt	301944	-	see also 19394 line
43887	RNU3IP2	NM_004704.2	1301	tcccctgtgggtttatcaac	301941	-	see also 19394 line
43888	HCA66	NM_018428.1	1609	tctgtcaaatggcgaacataag	301987	-	see also 19395 line
43889	HCA66	NM_018428.1	1747	atctactggcggagatgaataat	301992	-	see also 19395 line
43890	HCA66	NM_018428.1	411	aactgacttagcaaggtattct	301957	-	see also 19395 line
43891	PRPF39	NM_017922.2	2423	gtgcgtgttatcaatacaattat	302044	-	see also 7177 line
43892	PRPF39	NM_017922.2	2421	tagtgcgtgttatcaatacaatt	302043	-	see also 7177 line
43893	GLE1L	NM_001499.1	319	gccttagatcaaccctcattgt	302052	-	see also 19397 line
43894	GLE1L	NM_001499.1	450	gtctcaccggggatcaaatg	302056	-	see also 19397 line
43895	CD37	NM_001774.1	419	tgcggagacgtcgtagagaaacc	302081	-	see also 19399 line
43896	CD37	NM_001774.1	622	accaacgactccacaatcctaga	302082	-	see also 19399 line
43897	CD37	NM_001774.1	824	tactcagctcgggttcactgacg	302084	-	see also 19399 line
43898	GYPC	NM_002101.3	519	cagcagaagaggagtactttattt	302088	-	see also 19400 line
43899	GYPC	NM_002101.3	520	agcagaagaggagtactttattt	302089	-	see also 19400 line
43900	TM4SF2	NM_004615.2	433	caaggacgtatgcagacttaca	302097	-	see also 19401 line
43901	TM4SF2	NM_004615.2	437	gaagctatgcagacttacaatgg	302099	-	see also 19401 line
43902	TM4SF4	NM_004617.2	623	tccacgacggggattatctcaat	302120	-	see also 19402 line
43903	TM4SF4	NM_004617.2	590	gcctcatggccaatgactacatgg	302118	-	see also 19402 line
43904	TM4SF4	NM_004617.2	625	caagcaggggattatctcaatga	302121	-	see also 19402 line
43905	TM4SF5	NM_003963.2	587	tgcggcgattgcaggaataaaca	302128	-	see also 19403 line
43906	TM4SF5	NM_003963.2	589	cggcgattgcaggaataaacaagg	302129	-	see also 19403 line
43907	DAD1	NM_001344.1	88	gtcatttcgcgggtcttagaaga	302131	-	see also 19404 line
43908	DAD1	NM_001344.1	273	agcggtttgcctgagatacaga	302137	-	see also 19404 line
43909	SERP1	NM_014445.2	385	gtcgcaagacctcgagaatgc	302141	-	see also 19405 line

図46 (続き)

1180

43910	SERP1	NM_014445.2	436	tggtattggctcttcttctt	302143	-	see also 19405 line
43911	UBQLN3	NM_017481.2	257	cccgatcagctgttctaatct	302147	-	see also 19406 line
43912	UBQLN3	NM_017481.2	256	acccgataagctgttctaatc	302146	-	see also 19406 line
43913	UBQLN3	NM_017481.2	1274	cccgagagatcaagtagcaatca	302164	-	see also 19406 line
43914	APG12L	NM_004707.2	116	agcggggaacaccaaagtttca	302176	-	see also 19407 line
43915	APG12L	NM_004707.2	487	aacctccaaggaacttact	302183	-	see also 19407 line
43916	MGC47816	NM_173642.1	1252	ccgaaactggctacaacattaa	302199	-	see also 10102 line
43917	MGC47816	NM_173642.1	1137	tgcaagagcgtctataccatca	302196	-	see also 10102 line
43918	UBD	NM_006398.1	374	tcgagactaagcgggtataatc	302211	-	see also 19409 line
43919	UBD	NM_006398.1	365	aagcaatgatcagactaagacg	302210	-	see also 19409 line
43920	ODC20	NM_001255.1	1511	ggagctatggcgtgttttgagt	302217	-	cell_cycle -
43921	ODC20	NM_001255.1	1236	ggcacagtgatgcacacattcg	302216	-	see also 43920 line
43922	ODC20	NM_001255.1	1513	ggctatggcgtgttttgagt	302218	-	see also 43920 line
43923	ODC23	NM_004661.2	1007	gtgtagaacgtgtgtgttaatt	302251	-	see also 3180 line
43924	ODC23	NM_004661.2	231	acggctcagcctattacaagagg	302227	-	see also 3180 line
43925	PSMD14	NM_005805.1	1109	ttgggatactgtctattaaata	302304	-	see also 4051 line
43926	PSMD8	NM_002812.3	328	aacgtaaaagcccaatotttag	302307	-	see also 1830 line
43927	PSMD8	NM_002812.3	329	acgtaaaagcccaatcttagc	302308	-	see also 1830 line
43928	UK114	NM_005836.1	486	cactgaacagggatcaactataa	302326	-	see also 19413 line
43929	UK114	NM_005836.1	173	gtcgacagggaccattacatttc	302322	-	see also 19413 line
43930	EEF1E1	NM_004280.2	146	gtctaacaggatgactactata	302328	-	see also 2868 line
43931	EEF1E1	NM_004280.2	276	tgggcaactccagtaaaatgaca	302331	-	see also 2868 line
43932	MRRF	NM_138777.2	744	aggttcgaccacactcaatgaac	302339	-	see also 19415 line
43933	PELO	NM_015946.4	2002	tgacggcacocgttaggatattct	302358	-	see also 19416 line
43934	PELO	NM_015946.4	1558	ggctatccagcgcacacatacact	302344	-	see also 19416 line
43935	TPR	NM_003292.1	2117	tagttcgtcagcgtgatgtatgac	302402	-	see also 2227 line
43936	TPR	NM_003292.1	5531	gtggatccgttcgtctactagt	302487	-	see also 2227 line
43937	TRAM1	NM_014294.3	454	tgccgtaattcaagagatatagt	302537	-	see also 5601 line
43938	TRAM1	NM_014294.3	1075	ggcatcatttgcgttactcagg	302548	-	see also 5601 line
43939	MGC14421	NM_032907.2	565	cgttagggggtatagtatttca	302561	-	see also 19418 line
43940	MGC14421	NM_032907.2	561	tactcgttagggggtatagtatt	302558	-	see also 19418 line
43941	MGC14421	NM_032907.2	563	ctcgttagggggtatagtattt	302559	-	see also 19418 line
43942	TRAM2	NM_012288.1	1019	tgccgcaactggcgggaatactgg	302601	-	see also 5256 line
43943	TRAM2	NM_012288.1	1155	ctcccacaggaactaagaactca	302602	-	see also 5256 line
43944	THEG	NM_016585.3	836	cgggagatctccagttgtcaag	302612	-	see also 19420 line
43945	THEG	NM_016585.3	630	gtctcggcccaagagattctacc	302608	-	see also 19420 line
43946	GD81	NM_004356.2	240	ctgtgggcgtctcatgatttc	302614	-	see also 19421 line
43947	CD81	NM_004356.2	672	tggtgcgtgtgatcatgatttc	302617	-	see also 19421 line
43948	LPXN	NM_004811.1	268	cagctcgtgtatctactccaat	302624	-	see also 3344 line
43949	LPXN	NM_004811.1	856	aagccatattccgaagagattt	302630	-	see also 3344 line
43950	OCN	NM_002538.2	1314	atgtgagagagtggtgttaaat	302641	-	see also 19423 line
43951	OCN	NM_002538.2	1688	aggaatatccaccttacttc	302651	-	see also 19423 line
43952	OXA1L	NM_005015.1	1325	aacaaagcgtcgggaatagttg	302689	-	see also 19424 line
43953	OXA1L	NM_005015.1	955	tccgatcccatctacattacc	302679	-	see also 19424 line

1181

図46 (続き)

43954	PICALM	NM_007166.1	160	agcctgaacggaccggaatcactgc	302693	-	see also 4966 line
43955	PICALM	NM_007166.1	1740	acctagcaagtagtagtctgatg	302733	-	see also 4966 line
43956	PICALM	NM_007166.1	1959	accaacagggatgagtagatg	302736	-	see also 4966 line
43957	SLC9A3R1	NM_004252.1	597	caggggcctggcgaacgaaatga	302744	-	signal transduction
43958	SLC9A3R1	NM_004252.1	599	gggggctggcgaacgaaatgagc	302745	-	see also 43957 line
43959	SLC9A3R1	NM_004252.1	1160	ctcgcccccacatcctagacttca	302746	-	see also 43957 line
43960	TM4SF7	NM_003271.3	522	ttcgctacacggacaagattga	302748	-	-
43961	TM4SF7	NM_003271.3	524	cgctacacggacaagattgaca	302749	-	see also 43960 line
43962	TRAF1	NM_005658.2	1080	atcatgagggagggatgatgagc	302753	-	see also 19426 line
43963	TRAF1	NM_005658.2	1044	gtcgctcttcacgtgatcatga	302752	-	see also 19426 line
43964	VAMP3	NM_004781.2	259	tgggcaatcgggagattactgtct	302763	-	see also 3293 line
43965	VAMP3	NM_004781.2	256	atgtgggcaatcgggagattactgt	302761	-	see also 3293 line
43966	VAMP8	NM_003761.2	285	gtccttatctgcgtgatgtttt	302776	-	see also 19429 line
43967	VAMP8	NM_003761.2	209	agccacatctgagcacttcaaga	302775	-	see also 19429 line
43968	DKFZp434	NM_178123.2	1075	ccgctaccaggaggtttgtagg	302802	-	see also 19430 line
43969	DKFZp434	NM_178123.2	479	tagagagattaccggtgattgtgg	302783	-	see also 19430 line
43970	FKBP8	NM_012181.2	982	gacggcctgttaccgggaaatgc	302834	-	see also 19431 line
43971	FKBP8	NM_012181.2	903	agctgggaacctccacaaagacg	302833	-	see also 19431 line
43972	KIAA0372	NM_014639.1	2003	ggcgagagactatatttgaaaa	302889	-	see also 19432 line
43973	KIAA0372	NM_014639.1	1410	agcaattctgcgtgtgacaga	302870	-	see also 19432 line
43974	LOC57795	NM_021165.1	2247	acctcgggagcggaatcaagtcc	302997	-	see also 19433 line
43975	LOC57795	NM_021165.1	734	aagtacggcactcattcttact	302987	-	see also 19433 line
43976	PPIL6	NM_173672.1	794	agcaacgggtcacaaattctatat	303025	-	see also 19434 line
43977	PPIL6	NM_173672.1	597	aactgggataagaactacattac	303016	-	see also 19434 line
43978	STUB1	NM_005861.1	469	ctcttcgaatcgcgaagaagaag	303037	-	see also 19435 line
43979	STUB1	NM_005861.1	332	gtctgtgaaggcgacactttccc	303036	-	see also 19435 line
43980	STUB1	NM_005861.1	224	ccgctgtgtggccgtgtattaca	303034	-	see also 19435 line
43981	LECT1	NM_007015.1	224	tcattacaccatgagttacat	303043	-	see also 19436 line
43982	LECT1	NM_007015.1	830	atcagaagggaatctgttgtata	303059	-	see also 19436 line
43983	PTDSS2	NM_030783.1	815	ctgtgtgagtagtgcattcatca	303091	-	see also 8946 line
43984	ELOVL1	NM_022821.1	634	ttcgtgtcatgtcataatgtacc	303103	-	see also 19438 line
43985	ELOVL1	NM_022821.1	631	ctcttcgtcatgtcataatgt	303102	-	see also 19438 line
43986	ELOVL3	NM_152310.1	851	cacaccacgatgggaacactatt	303128	-	see also 19439 line
43987	ELOVL3	NM_152310.1	571	ggctaaggcgccactcatcttta	303119	-	see also 19439 line
43988	PRKAB1	NM_006253.4	519	ctcgcccaacgggttttcgtagg	303131	-	see also 19440 line
43989	PRKAB1	NM_006253.4	324	agcggtgtgtggcccaagaagc	303129	-	see also 19440 line
43990	PRKAB1	NM_006253.4	695	gaccttcgggcccacatagtaac	303135	-	see also 19440 line
43991	C1orf17	NM_015101.1	1977	agccgagtagaaggagattattg	303162	-	see also 6241 line
43992	C1orf17	NM_015101.1	1978	ggcgagtagaaggagattattga	303163	-	see also 6241 line
43993	CEECAM1	NM_016174.3	833	caccgtatgggtacatgaatgt	303170	-	see also 19442 line
43994	CEECAM1	NM_016174.3	991	aggggttgacggaggtttgtgca	303172	-	see also 19442 line
43995	FLJ22329	NM_024656.2	1729	acctcagtcgtatggacaatga	303187	-	see also 8679 line

図46 (続き)

1182

43996	FLJ22329	NM_024656.2	1731	ctcagtcgtatggacaatgagc	303188	-	see also 8679 line
43997	COQ7	NM_016138.3	370	ttcagggtccggccaacagttct	303198	-	see also 19444 line
43998	COQ7	NM_016138.3	118	cggcgtctccctcagcattatgg	303189	-	see also 19444 line
43999	COQ4	NM_016035.1	685	ctccctcgttcagcagtatctcc	303209	-	see also 19445 line
44000	COQ4	NM_016035.1	521	caagacatggtccagcttctagg	303207	-	see also 19445 line
44001	MATP	NM_016180.2	1625	gtcgtctctttttagatatgt	303237	-	see also 19448 line
44002	MATP	NM_016180.2	1306	tggcgtctcccgatctact	303234	-	see also 19446 line
44003	SILV	NM_006928.2	1429	ctgtatgatattggtctctttc	303255	-	see also 4859 line
44004	SILV	NM_006928.2	1373	tggatgtacagccacttaagg	303252	-	see also 4859 line
44005	GCHFR	NM_005258.2	142	cactatggtggcgatgaacagt	303259	-	-
44006	GCHFR	NM_005258.2	212	ttgggaacaacattttatgaata	303260	-	see also 44005 line
44007	FLJ31978	NM_144669.1	466	agcgcgtgggtacagttgatgg	303269	-	see also 19448 line
44008	FLJ31978	NM_144669.1	467	gcgcgtgggtacagttgatgg	303270	-	see also 19448 line
44009	MGC35274	NM_153374.1	831	aacttgaaacatccagttatat	303280	-	see also 19449 line
44010	MGC35274	NM_153374.1	790	gccaataaactgtttaccaatga	303278	-	see also 19449 line
44011	NCOA7	NM_181782.1	1862	ggcgggtgatccataactgagg	303329	-	see also 10253 line
44012	NCOA7	NM_181782.1	2625	taccggaaatcggcatcactaga	303348	-	see also 10253 line
44013	OSBP2	NM_030758.1	2343	tccggctcgtgggtgaacaaat	303374	-	see also 19451 line
44014	OSBP2	NM_030758.1	2342	gtcggctcgtgggtgaacaaa	303373	-	see also 19451 line
44015	OSBP10	NM_017784.3	2631	ggcggatggctgggtacttcca	303420	-	see also 7152 line
44016	OSBP11	NM_022776.3	2143	atcgggttacagctgaagttaag	303468	-	see also 8466 line
44017	OSBP11	NM_022776.3	1621	ggcgttaaggaggccattgctaaa	303453	-	see also 8466 line
44018	OSBP12	NM_014835.2	1585	ctcggactccagatattact	303502	-	see also 6043 line
44019	OSBP12	NM_014835.2	1538	gggaaccccgactgggtgtatgc	303501	-	see also 6043 line
44020	OSBP13	NM_015550.2	2735	aaggctacaggcaatactatagc	303556	-	see also 19455 line
44021	OSBP13	NM_015550.2	1136	agtcctgcacatggacatactcg	303518	-	see also 19455 line
44022	OSBP13	NM_015550.2	2168	ttgccatatacagcgtatgcatt	303544	-	see also 19455 line
44023	OSBP16	NM_032523.2	2930	ccgggttcggccagatcaaaaga	303640	-	see also 9237 line
44024	OSBP16	NM_032523.2	3139	aaggaccctgggttagcaaatg	303649	-	see also 9237 line
44025	OSBP17	NM_017731.3	2437	cccgacacatgagcgaaacttcg	303665	-	see also 19457 line
44026	OSBP17	NM_017731.3	473	gaggacgggatctctcattatgc	303654	-	see also 19457 line
44027	OSBP18	NM_020841.3	2792	aacatgtaactccaatgttagc	303751	-	see also 7988 line
44028	OSBP18	NM_020841.3	2545	cgggttaactcggccataaatagc	303742	-	see also 7988 line
44029	OSBP19	NM_024586.3	1156	gtcgaagttagaacttggaatgg	303799	-	see also 8649 line
44030	OSBP19	NM_024586.3	937	atcccaaaagcgttaaatagatt	303787	-	see also 8649 line
44031	ASA2	NM_019893.1	1016	ttggaccacgttgatcaacacaca	303852	-	see also 7751 line
44032	ASA2	NM_019893.1	1659	atgcaacgtctatcacattaca	303869	-	see also 7751 line
44033	BTN3A1	NM_007048.3	1325	ttcagcctataatgaatgaataa	303880	-	see also 19461 line
44034	CLU	NM_001831.1	195	gtcaacgggggtgaacagataaaa	303891	-	see also 19462 line
44035	CLU	NM_001831.1	193	ctgtcaacgggtgaacagata	303890	-	see also 19462 line
44036	CYB5-M	NM_030579.1	412	atcataggcgtgtctctctagg	303909	-	see also 8892 line
44037	CYB5-M	NM_030579.1	417	aggcgcgtgtctcttagtttcc	303910	-	see also 8892 line
44038	CYBRD1	NM_024843.2	195	atggaggcgcactagagtttac	303911	-	see also 19464 line
44039	CYBRD1	NM_024843.2	322	atccatccatcagggttaaatg	303913	-	see also 19464 line

1183

図46 (続き)

44040	CYP421	NM_178134.2	1192	tcttaactgcagaataactgt	303927	-	-	-
44041	FLJ20296	NM_017750.2	409	gggcagcattggccgtttatct	303934	-	see also 19465 line	
44042	FLJ20296	NM_017750.2	412	cagcattggccgtttatcttgg	303935	-	see also 19465 line	
44043	FLJ20296	NM_017750.2	408	aggcagcattggccgtttatc	303933	-	see also 19465 line	
44044	FLJ23153	NM_024636.1	767	ggcgtaatctacccttattta	303965	-	see also 19466 line	
44045	FLJ23153	NM_024636.1	896	tgcgtccattctacaactgtacc	303971	-	see also 19466 line	
44046	FLJ39035	NM_182580.1	585	tctggcagctactcagtgatgg	303976	-	see also 19467 line	
44047	FLJ39035	NM_182580.1	589	ggcagctactcagtgatgtcc	303977	-	see also 19467 line	
44048	KIAA0601	NM_015013.1	948	cagctcgacagcttacaagtgtt	303994	-	see also 19468 line	
44049	KIAA0601	NM_015013.1	815	gtccaccaggttcacagtttt	303987	-	see also 19468 line	
44050	KIAA0601	NM_015013.1	949	agctcgacagcttacaagtgtt	303995	-	see also 19468 line	
44051	LDHD	NM_153486.2	929	gcccgtagcccccattgagttcc	304041	-	-	-
44052	LDHD	NM_153486.2	928	tcccgttagcccccattgagttc	304040	-	see also 44051 line	
44053	MGC20446	NM_153611.2	979	atccgtcattcgggcattaatg	304049	-	see also 19469 line	
44054	MGC20446	NM_153611.2	980	tccgtcattcgggcattaatga	304050	-	see also 19469 line	
44055	MGC25181	NM_152783.2	1459	tggtaacctgcacccaattgga	304054	-	see also 19470 line	
44056	MGC25181	NM_152783.2	775	aggcctgcgggtttctcgatag	304052	-	see also 19470 line	
44057	PAOX	NM_152911.1	1506	aagccacacatgcacggtttac	304069	-	see also 19471 line	
44058	PAOX	NM_152911.1	1507	agccacacatgcacggtttact	304070	-	see also 19471 line	
44059	PAOX	NM_152911.1	942	tgtcacccgtgccttaggtttt	304062	-	see also 19471 line	
44060	PCM1	NM_006197.2	5157	cagtaaggcgcaggttttgacc	304242	-	see also 4290 line	
44061	PCM1	NM_006197.2	3394	cagcgtctctacaggtttatgc	304175	-	see also 4290 line	
44062	SRPUL	NM_014467.1	579	gagtcacccgatgggtgtataca	304275	-	see also 5698 line	
44063	SRPUL	NM_014467.1	778	gagatgccacgcacactaccattca	304281	-	see also 5698 line	
44064	STEAP2	NM_152999.2	912	agcggacacacaggtttatgaac	304315	-	see also 19474 line	
44065	STEAP2	NM_152999.2	1592	atgtcgtctcgtctcataagttact	304334	-	see also 19474 line	
44066	TSAP6	NM_018234.1	1532	ggaggagagcaccatacagttca	304348	-	see also 19475 line	
44067	TSAP6	NM_018234.1	1390	tggaggagcgcgcctacaagttc	304346	-	see also 19475 line	
44068	FLJ10986	NM_018291.2	1317	tggtcacccgatggaaactgtct	304365	-	see also 19476 line	
44069	FLJ10986	NM_018291.2	582	gggataaggcgggacatttctt	304353	-	see also 19476 line	
44070	KIAA1838	NM_032448.1	788	gcctccttggcacaacgcataatc	304386	-	see also 19477 line	
44071	KIAA1838	NM_032448.1	291	tggccagtgccggagaaactttt	304379	-	see also 19477 line	
44072	MGC40579	NM_152776.1	538	tggccagtgcttcacttttca	304436	-	see also 19478 line	
44073	MGC40579	NM_152776.1	856	ggggacacaaagcccaattttg	304448	-	see also 19478 line	
44074	KIAA0992	NM_016081.2	2306	cagccgaggttaacatacgaaga	304505	-	see also 19479 line	
44075	KIAA0992	NM_016081.2	1017	ctgcacctcgattctccaaaag	304471	-	see also 19479 line	
44076	WFS1	NM_006005.2	2481	gaccgctacaagttcagattac	304547	-	see also 19480 line	
44077	WFS1	NM_006005.2	875	cagcgagtcacaagaaactacatcg	304541	-	see also 19480 line	
44078	CDT6	NM_021146.2	924	aacctgcctacgtcgagtatag	304557	-	see also 19481 line	
44079	CDT6	NM_021146.2	655	accgcatctcgagtgataag	304554	-	see also 19481 line	
44080	MTL5	NM_004923.2	232	tccgttcgttcggaggaacatcg	304562	-	see also 19482 line	
44081	MTL5	NM_004923.2	991	agccttaccatcgtgtatgaacg	304571	-	see also 19482 line	
44082	MTL5	NM_004923.2	1022	tcccttcgggagcaactctcc	304572	-	see also 19482 line	
44083	PDLM1	NM_020992.2	848	gtggctgcgtcgattggaaatgc	304592	-	see also 19483 line	

図46 (続き)

1184

44084	PDLM1	NM_020992.2	218	agcaagcgccgtctagctaattt	304581	-	see also 19483 line
44085	CAMP	NM_004345.3	612	aaggatttttgcggaatttgt	304605	-	see also 19484 line
44086	CAMP	NM_004345.3	598	ttgtccagagaatcaaggatttt	304603	-	see also 19484 line
44087	CAMP	NM_004345.3	504	gacatacagttgtataaggataa	304600	-	see also 19484 line
44088	DEFA5	NM_021010.1	270	ccctctccgggtgtgtgaatc	304608	-	see also 19486 line
44089	DEFA5	NM_021010.1	275	tccgggtgtgtgaatcagttgg	304609	-	see also 19486 line
44090	DEFA6	NM_001926.2	305	cactgtcatggtataaacaca	304615	-	see also 19487 line
44091	DEFA6	NM_001926.2	122	tcacactgcaggcaaaagcttatg	304611	-	see also 19487 line
44092	DEFB1	NM_005218.2	125	ggcctcaggtgtgaactttctca	304616	-	see also 19488 line
44093	DEFB103	NM_018661.2	274	caggtcatgaggaaatcataaac	304621	-	see also 19489 line
44094	DEFB103	NM_018661.2	272	tcacagtcagaggagaatcataa	304620	-	see also 19489 line
44095	DEFB104	NM_080389.1	117	gcccgttgcggagaagaatgtcg	304630	-	see also 19490 line
44096	DEFB104	NM_080389.1	206	gagcttactgaatcgtacaaaac	304635	-	see also 19490 line
44097	DEFB106	NM_152251.2	179	ggcatgtggagacattatagatt	304639	-	see also 19491 line
44098	DEFB106	NM_152251.2	141	ctctgccagaagctctcgaatg	304637	-	see also 19491 line
44099	DEFB118	NM_054112.1	186	tgctgcattccatccaatgaaga	304641	-	see also 19492 line
44100	DEFB118	NM_054112.1	288	aggttcaacgacagactactttga	304645	-	see also 19492 line
44101	DEFB119	NM_153289.2	222	ttgtaggccctcttgcaaaaaaga	304648	-	-
44102	DEFB119	NM_153289.2	290	tcacagtcctacatgagataagc	304651	-	see also 44101 line
44103	DEFB123	NM_153289.2	248	aacagccctcactctattgcaga	304649	-	see also 44101 line
44104	DEFB123	NM_153242.2	144	ctcaggtgcaccccaagaatttc	304654	-	see also 19493 line
44105	DEFB123	NM_153242.2	215	gtctatgttactgcataataaa	304656	-	see also 19493 line
44106	DEFB125	NM_153325.1	128	ttcttttaggacaacagctatca	304662	-	see also 19494 line
44107	DEFB125	NM_153325.1	261	cccagttatctgttgatgac	304666	-	see also 19494 line
44108	DEFB127	NM_139074.2	42	accacagtaaacoggaacaactta	304670	-	see also 19495 line
44109	DEFB127	NM_139074.2	64	aagaagtgtggaataactatgt	304673	-	see also 19495 line
44110	DEFB129	NM_080831.2	264	aagaattctagtctgtgatata	304680	-	see also 19496 line
44111	DEFB129	NM_080831.2	438	accaagagtaacacacaagaag	304684	-	see also 19496 line
44112	GNLY	NM_006433.2	436	ggcgagcgtctgcagaaatttc	304691	-	see also 19497 line
44113	GNLY	NM_006433.2	525	ggagacctcaggtgtgtatacc	304692	-	see also 19497 line
44114	HTN1	NM_002159.2	204	atggagactatggatcaaatat	304696	-	see also 19498 line
44115	HTN1	NM_002159.2	181	ttcacatagagaatttccatttt	304694	-	see also 19498 line
44116	HTN3	NM_000200.1	190	atcgaggcttagatcaaatat	304700	-	see also 19499 line
44117	HTN3	NM_000200.1	117	atgactgagctgattcacatgc	304699	-	see also 19499 line
44118	LEAP-2	NM_052971.1	1477	caaggagaaatgccccattttgg	304702	-	see also 19500 line
44119	C7orf10	NM_024728.1	869	accaccttgggtacacacataga	304732	-	see also 8717 line
44120	C7orf10	NM_024728.1	871	caaccttgggtacacacataaaa	304733	-	see also 8717 line
44121	C7orf10	NM_024728.1	974	tcccgtatggcccaatcaacaac	304739	-	see also 8717 line
44122	INSIG1	NM_005542.3	966	ctgaaaagcccatagtattga	304767	-	see also 19502 line
44123	INSIG1	NM_005542.3	504	aggtgatgccaccatttttcc	304754	-	see also 19502 line
44124	PRNP	NM_000311.2	629	caagactggtcaatatacaaat	304778	-	see also 19503 line
44125	PRNP	NM_000311.2	694	caccgagacccgacgttaagatga	304781	-	see also 19503 line
44126	ATP6V0A4	NM_020632.1	2586	gaggaaatcgtcggtttttatt	304818	-	see also 19504 line
44127	ATP6V0A4	NM_020632.1	1649	tacaagggttgcattctacaatga	304806	-	see also 19504 line

図46 (続き)

1185

44128	ATP6V0D2	NM_152565.1	714	ggcggacagacgtgcttttatca	304844	-	see also 9882 line
44129	ATP6V0D2	NM_152565.1	870	agcggatacttagagatataca	304848	-	see also 9882 line
44130	BAT3	NM_004639.2	2720	cacggagctagaagagatgtgc	304889	-	see also 3153 line
44131	BAT3	NM_004639.2	2973	ggcgaattcgtgtatgtctcg	304893	-	see also 3153 line
44132	AP1GBP1	NM_007247.3	1061	gccttagctatgaactacacc	304915	-	see also 5048 line
44133	AP1GBP1	NM_007247.3	1120	agccatgatagcggtaacacaga	304916	-	see also 5048 line
44134	AP1GBP1	NM_007247.3	2876	tccaaagtaacagaccctttag	304952	-	see also 5048 line
44135	BRDG1	NM_012108.1	543	cagagtacgtcgtggaaaaaga	304980	-	see also 19507 line
44136	BRDG1	NM_012108.1	545	gactacgtcgtggaaaaagaga	304981	-	see also 19507 line
44137	BRDG1	NM_012108.1	199	accggagtagagcaattactgg	304974	-	see also 19507 line
44138	STAM2	NM_005843.3	820	atggtacgtcatgaacaaaac	305003	-	see also 19508 line
44139	STAM2	NM_005843.3	1417	aagctctggaactataacaaa	305022	-	see also 19508 line
44140	STN2	NM_033104.2	1541	gaccgattctgtcaactgaca	305060	-	see also 9358 line
44141	STN2	NM_033104.2	2588	accgaatccggacaaaactca	305074	-	see also 9358 line
44142	SEC22L1	NM_004892.3	501	gacagtcgtctgaagaatact	305095	-	see also 3394 line
44143	SEC22L1	NM_004892.3	664	aggatcgaaagtactgaacatg	305100	-	see also 3394 line
44144	SEC22L3	NM_004206.2	804	ttcctttcgtagctgcatttc	305116	-	see also 19511 line
44145	SEC22L3	NM_004206.2	437	tccagcccaactgctttcttga	305109	-	see also 19511 line
44146	RAB9P40	NM_005833.2	795	acctcactgactgataagt	305129	-	see also 19512 line
44147	RAB9P40	NM_005833.2	1020	tggacaattcattgtatcat	305134	-	see also 19512 line
44148	ELMO2	NM_022086.6	907	acctagccactgcaactgataa	305148	-	see also 19513 line
44149	ELMO2	NM_022086.6	1636	gtcgtccgagagcaaatcactcg	305157	-	see also 19513 line
44150	ELMO3	NM_024712.2	1106	cgggtacagccggttgtgttg	305176	-	see also 19514 line
44151	ELMO3	NM_024712.2	1105	ggcgtacagccgggtgtgttg	305175	-	see also 19514 line
44152	AMPH	NM_001635.2	2134	aacttaaccgcgcgttagatta	305217	-	see also 19515 line
44153	AMPH	NM_001635.2	1221	atggacgcaaacactgatttgg	305203	-	see also 19515 line
44154	AP4E1	NM_007347.2	1718	ctcaggcgcaactcttctaata	305262	-	see also 19516 line
44155	AP4E1	NM_007347.2	2249	atgtagatcaagctataactaaa	305275	-	see also 19516 line
44156	BIN1	NM_004305.2	1027	ctcaaccagaacctcaatgatgt	305311	-	see also 19517 line
44157	BIN1	NM_004305.2	1478	tgcgccaggtttcatgtccaag	305313	-	see also 19517 line
44158	BIN2	NM_016187.1	309	aaggccatogtaggaataatga	305320	-	see also 19518 line
44159	BIN2	NM_016187.1	610	gtcgtattggctgctatgacc	305324	-	see also 19518 line
44160	BIN3	NM_018688.3	346	gactgtatcagagcccttaaaa	305342	-	see also 19519 line
44161	BIN3	NM_018688.3	180	agcagacactggccatgtcaaaa	305338	-	see also 19519 line
44162	EPN1	NM_013333.1	1237	ggcgtgaacgtgctgagaaagc	305345	-	see also 19520 line
44163	EPN1	NM_013333.1	2005	ccgacagagttctgtacttga	305346	-	see also 19520 line
44164	HOOK2	NM_013312.1	588	agccagtcgccgaggtactattt	305351	-	see also 19521 line
44165	HOOK2	NM_013312.1	2152	agcagggcgtggcaaccattct	305360	-	see also 19521 line
44166	HOOK2	NM_013312.1	589	ggcagtcgccgaggtactatttc	305352	-	see also 19521 line
44167	PACSIN3	NM_016223.3	1086	gacaatcagccggaagagaagg	305364	-	-
44168	PACSIN3	NM_016223.3	863	ccgagcgcagcggctcttttc	305362	-	see also 44167 line
44169	PACSIN3	NM_016223.3	875	ggctctttttctcaaggatatg	305363	-	see also 44167 line
44170	CPLX2	NM_006650.2	422	aggaccccgacgcgcagaaaaag	305365	-	see also 19522 line
44171	CPLX2	NM_006650.2	426	ccccgacgcgcagaaaaaggagg	305366	-	see also 19522 line

図46 (続き)

1186

44172	YKT6	NM_006555.3	359	gtctacgtcgcgaatgatactct	305374	-	see also 19523 line
44173	YKT6	NM_006555.3	362	tacgtcgcgaatgatactctgc	305375	-	see also 19523 line
44174	LRMP	NM_006152.1	847	ttctcgcacagcagctactataa	305388	-	see also 19524 line
44175	LRMP	NM_006152.1	857	gacggtactataacttaactga	305390	-	see also 19524 line
44176	CADPS	NM_003716.2	1589	ggctcaaatcgcactcgtatatt	305436	-	see also 2539 line
44177	CADPS	NM_003716.2	3220	ttctcgtactgactataatttg	305470	-	see also 2539 line
44178	CGI-141	NM_016072.2	368	gtcgtgttggtgcttattagaag	305512	-	see also 6649 line
44179	GOLGA4	NM_002078.2	996	tggcccgatgaatgtgatgac	305541	-	see also 1344 line
44180	GOLGA4	NM_002078.2	5605	caggagcgcgttaataaagctaga	305650	-	see also 1344 line
44181	GLTP	NM_016433.2	678	ggcgacatcgcgtgcatctacg	305709	-	see also 6858 line
44182	GLTP	NM_016433.2	656	gcctctctctgtcaactacaag	305708	-	see also 6858 line
44183	FLJ23790	NM_144963.1	825	cagctttctatagaactagaaa	305716	-	see also 19529 line
44184	FLJ23790	NM_144963.1	323	ttgaacctctactctataagata	305712	-	see also 19529 line
44185	LAPTM4A	NM_014713.2	174	acgcagctgacgggtttacaagc	305719	-	see also 19530 line
44186	LAPTM4A	NM_014713.2	773	cagtagcttttgcacactatga	305739	-	see also 19530 line
44187	NPTX1	NM_002522.1	1409	aggcctgtgcgcagatcaactga	305751	-	see also 1619 line
44188	NPTX1	NM_002522.1	826	ttccacgtcgagcaactatat	305744	-	see also 1619 line
44189	NUP62	NM_012346.3	754	cccaacctcgggttcaacatt	305759	-	see also 19532 line
44190	NUP62	NM_012346.3	912	ccagcctcttgcgtcaatgc	305760	-	see also 19532 line
44191	NUP62	NM_012346.3	465	cagacacagcgttcaactttgg	305754	-	see also 19532 line
44192	STX17	NM_017919.1	270	ttcagcaactcgcgtcacaatc	305774	-	see also 7174 line
44193	STX6	NM_005819.3	447	tacaagtactcggcgaagtgtga	305791	-	see also 19534 line
44194	STX6	NM_005819.3	836	ttgcacaaagtatctatagacc	305798	-	see also 19534 line
44195	STX8	NM_004853.1	169	ttctcacatcaggtctacttg	305800	-	see also 19535 line
44196	STX8	NM_004853.1	172	ttcacatacaggtctacttgta	305801	-	see also 19535 line
44197	TRAPPC3	NM_014408.3	592	caggcaggttgaggacacattc	305833	-	see also 19536 line
44198	TRAPPC3	NM_014408.3	570	cagaaatcggatgagatcattc	305832	-	see also 19536 line
44199	ASC	NM_013258.3	607	atcgagaggtgcacaaacttga	305836	-	apoptosis, signal_transduction, cell_cycle
44200	DLEU1	NM_005887.1	347	tacagaggtatcgacttaagc	305843	-	see also 19537 line
44201	DLEU1	NM_005887.1	361	caactaaagcctcggaacacatt	305844	-	see also 19537 line
44202	DLEU1	NM_005887.1	303	accgctcgcgcgttcttagagc	305840	-	see also 19537 line
44203	DLEU2	NM_006021.1	456	ctcattgaatactatacaaaagg	305847	-	cell_cycle
44204	PDAP2	NM_007275.1	380	agctgagcggagtgataagaat	305848	-	see also 19538 line
44205	PDAP2	NM_007275.1	382	ctgagcggagtgataagaatct	305849	-	see also 19538 line
44206	SASH1	NM_015278.2	2396	ctctggatcgaggttaacataa	305877	-	see also 6310 line
44207	SASH1	NM_015278.2	2397	tcctggatcgaggttaacataa	305878	-	see also 6310 line
44208	TSC1	NM_000368.2	491	ctctgactgggttcgtatcaaa	305905	-	see also 297 line
44209	TSC1	NM_000368.2	288	gacagcgtgacagctgtctttaa	305894	-	see also 297 line
44210	TSC1	NM_000368.2	3496	ctcgaggttatcttgtaataag	305956	-	see also 297 line
44211	BTG4	NM_017589.2	573	atcagttatcggtagtagagc	305974	-	see also 19541 line
44212	BTG4	NM_017589.2	669	gtcagcaatcgaagaggtattta	305979	-	see also 19541 line
44213	C10orf7	NM_006023.1	508	cacgcttacggcaccagaatttc	305987	-	see also 4202 line

図46 (続き)

1187

44214	C10orf7	NM_006023.1	612	gggatcgctattggatgacgaatg	305992	-	see also 4202 line
44215	CUL2	NM_003591.2	1621	agcaagctacatcggtatgtatc	306061	-	see also 2398 line
44216	CUL2	NM_003591.2	2255	ctgtctatagttctgtatcatgaag	306090	-	see also 2398 line
44217	CUL4A	NM_003589.1	808	gcggagactgcgcacagatgaac	306205	-	see also 19545 line
44218	CUL4A	NM_003589.1	592	tgccgaagcccaaggttaatgc	306200	-	see also 19545 line
44219	GAR17	NM_139285.1	1918	ccctcgagtgaggctacatcc	306245	-	see also 19546 line
44220	GAR17	NM_139285.1	1277	cccacatttgggttcataaga	306241	-	see also 19546 line
44221	GAS2	NM_005256.2	438	atgaacggtctctattgaatcg	306264	-	see also 3698 line
44222	GAS2	NM_005256.2	182	gccttggttaaccaatctatt	306252	-	see also 3698 line
44223	GAS2L1	NM_006478.3	656	cccagcctctgctcagttgagc	306277	-	see also 4546 line
44224	GAS2L1	NM_006478.3	542	gcggagaggtgctcatgtttgaga	306276	-	see also 4546 line
44225	LOC28343	NM_174942.1	1321	ctctatgcatcgcgtttctaat	306326	-	see also 19548 line
44226	LOC28343	NM_174942.1	1587	atgcgcgaggtccacactttg	306335	-	see also 19548 line
44227	PPP1R15A	NM_014330.2	1759	ttccgagtggtccatctatgtacc	306357	-	see also 19549 line
44228	PPP1R15A	NM_014330.2	931	gccacggagagataaaagacaga	306350	-	see also 19549 line
44229	REPRIMO	NM_019845.1	382	gacgagcgtagcctgtacataat	306358	-	see also 19550 line
44230	SES1	NM_014454.1	535	atgctactactattgggaataatg	306378	-	see also 19551 line
44231	SES1	NM_014454.1	1275	ttggttaaatgcctttatccaga	306406	-	see also 19551 line
44232	SES2	NM_031459.3	1606	agcgggaacctcaaggtctatc	306426	-	see also 9035 line
44233	SES2	NM_031459.3	1655	gacaccccggaagaatgtacaccc	306427	-	see also 9035 line
44234	SES3	NM_144665.2	888	tggttaagctgaataatcagta	306448	-	see also 19553 line
44235	SES3	NM_144665.2	426	atccggtctgtgcacacatca	306433	-	see also 19553 line
44236	BCCIP	NM_016567.2	218	atgattatgcgggaattgaagaa	306480	-	see also 19554 line
44237	BCCIP	NM_016567.2	461	tacgcttctgtgagagaactgt	306487	-	see also 19554 line
44238	CCNA1	NM_003914.2	1069	atcagcagatgatacacacaaa	306538	-	see also 19555 line
44239	CCNA1	NM_003914.2	1061	ttgtctatcacccgatgataca	306537	-	see also 19555 line
44240	CCNA2	NM_001237.2	1223	ggcctgaatcattaatcgaag	306589	-	see also 809 line
44241	CCNA2	NM_001237.2	150	ggcctggcgctctgtagcttgc	306552	-	see also 809 line
44242	CCNE2	NM_004702.2	876	tgatggtacactttgtcaatgt	306607	-	see also 19557 line
44243	CCNE2	NM_004702.2	564	atcttaaggatggaactcattat	306597	-	see also 19557 line
44244	CCNG1	NM_004060.3	1046	gggtactgcacggcaattgaag	306647	-	see also 2736 line
44245	CCNG1	NM_004060.3	1066	aagcatagctactacagaataac	306651	-	see also 2736 line
44246	RGC32	NM_014059.1	318	ggagtgctcagattcactttatag	306654	-	see also 19559 line
44247	RGC32	NM_014059.1	412	ctgtcaactctcagaagactaaa	306656	-	see also 19559 line
44248	BUB3	NM_004725.1	619	ctgcatacagaggtttccaaca	306675	-	see also 19560 line
44249	BUB3	NM_004725.1	73	gaccggtctaacaggttcaagc	306657	-	see also 19560 line
44250	MAD2L2	NM_006341.2	281	accggagctgaatcagtatatc	306690	-	see also 19561 line
44251	MAD2L2	NM_006341.2	123	cacacgacagacactcaacttg	306688	-	see also 19561 line
44252	CHFR	NM_018223.1	1345	gacagcgtccaggattacgtgt	306706	-	see also 7328 line
44253	CHFR	NM_018223.1	1342	gacgacagcgtccaggattacg	306705	-	see also 7328 line
44254	GML	NM_002066.1	151	ttgcgctcagtggaacttaccagt	306722	-	see also 19564 line
44255	GML	NM_002066.1	450	gacattgtaccggtgaagtaac	306743	-	see also 19564 line
44256	GML	NM_002066.1	153	cgcgctcagtggaacttaccagtt	306723	-	see also 19564 line
44257	CCNG2	NM_004354.1	512	tcggtatttagtcagttgaatgt	306763	-	see also 2913 line

1188

図46 (続き)

44258	GDC16	NM_003903.2	579	ttgtctctacgaggaaatct	308788	-	see also 2660 line		
44259	CDC16	NM_003903.2	677	aagcgttcgattcttaacatca	308794	-	see also 2660 line		
44260	CENPF	NM_016343.2	1123	gaacaggcgtcaaccaagtatac	308863	-	see also 19567 line		
44261	CENPF	NM_016343.2	1124	accaggcgtcaaccaagtatac	308864	-	see also 19567 line		
44262	ANAPC7	NM_016238.1	613	tggatcaagcgtatgctttt	307035	-	see also 6744 line		
44263	ANAPC7	NM_016238.1	1102	ctgcacctgtcgcttagattg	307045	-	see also 6744 line		
44264	BCL2	NM_000633.1	74	gtgatgaagtcacatccattata	307068	-	see also 19583 line		
44265	BTG3	NM_006806.3	542	aagttaccaggcccttgataag	307083	-	see also 19570 line		
44266	BTG3	NM_006806.3	192	aagctagttcgagaaacatgata	307072	-	see also 19570 line		
44267	CCNB1	NM_031966.2	1392	cacatcgaagcgtcgaatgata	307134	-	see also 19571 line		
44268	CCNB1	NM_031966.2	1091	tcctcggagagcactcaagatt	307125	-	see also 19571 line		
44269	CCNB2	NM_004701.2	230	gtgactattaggcgaactgttt	307140	-	see also 3221 line		
44270	CCNB2	NM_004701.2	165	gcgcgacggtgtccagtgattg	307137	-	see also 3221 line		
44271	CCNB3	NM_033031.1	3784	acctgtgtgtagactttgtgt	307235	-	see also 19573 line		
44272	CCNB3	NM_033031.1	4201	ttctaccggtgttctttgaag	307242	-	see also 19573 line		
44273	CCND1	NM_053056.1	675	acccgcacgatttcattgaaca	307251	-	see also 19574 line		
44274	CCND1	NM_053056.1	674	gaaccgcacgatttcattgaac	307250	-	see also 19574 line		
44275	CCND2	NM_001759.2	1112	tacagacgtgcggatatacgacc	307261	-	see also 19575 line		
44276	CCND2	NM_001759.2	927	gtgagtcgctcaactgtgtgac	307259	-	see also 19575 line		
44277	CCND3	NM_001760.2	514	acgcctcaccatgaaaaaat	307262	-	see also 19576 line		
44278	CCND3	NM_001760.2	683	accgacaggcttgatcaaaaag	307265	-	see also 19576 line		
44279	CCNE1	NM_001238.1	453	aacgtcgaagcctcggattatg	307273	-	see also 810 line		
44280	CCNE1	NM_001238.1	457	tgaacccctcgattatgcacc	307275	-	see also 810 line		
44281	CCNE1	NM_001238.1	1082	ctgttcggctgtatcatttc	307296	-	see also 810 line		
44282	CCNF	NM_001761.1	1183	caaggcaaacactacaagtagc	307319	-	see also 19578 line		
44283	CCNF	NM_001761.1	1129	ctgcacccggtttatcagtaag	307312	-	see also 19578 line		
44284	HARG	NM_017913.1	647	ctgacatcatcactctgtatgt	307338	-	see also 19579 line		
44285	HARG	NM_017913.1	288	ctctgagcgtgcaaatggaatc	307332	-	see also 19579 line		
44286	MPHOSPH	NM_005792.1	213	gagcagagtttcttactatgga	307351	-	see also 19580 line		
44287	MPHOSPH	NM_005792.1	73	tgcgcattgaagtattgcaaaagg	307350	-	see also 19580 line		
44288	MPHOSPH	NM_022782.2	2807	caccgataaccatgtaataata	307432	-	see also 19581 line		
44289	MPHOSPH	NM_022782.2	2803	aagccaccgataacatgttaat	307429	-	see also 19581 line		
							cell cycle	ubiquinol- cytochrome c reductase	leukemia(白血病)、ataxia telangiectasia(毛細血管拡張性運動失調症)
44290	MTCP1	NM_014221.1	1604	caagggaagtcgtcatcaaaagtaa	307442	-	see also 44290 line		
44291	MTCP1	NM_014221.1	1602	aacacggaagtcgtcatcaaaagt	307441	-	see also 44290 line		
44292	MTCP1	NM_014221.1	1561	gtcgtctgttcaggatttgaaaa	307440	-	see also 4486 line		
44293	NEDD9	NM_006403.2	528	caccgaagcaagaagggtatc	307447	-	see also 4486 line		
44294	NEDD9	NM_006403.2	529	accgaagcaagaagggtatc	307448	-	see also 4486 line		
44295	NOL1	NM_006170.1	930	caacctcggacaataacttga	307501	-	see also 19583 line		
44296	NOL1	NM_006170.1	2099	aacgatcactaaattacagtc	307519	-	see also 19583 line		
44297	NUDC	NM_006600.2	264	atggcagagaagccttatcaaca	307526	-	see also 4651 line		
44298	SUGT1	NM_006704.2	744	atggtcctacgccaacaattc	307546	-	see also 4730 line		
44299	SUGT1	NM_006704.2	476	aagtatgactgtgtatcaaacaga	307535	-	see also 4730 line		

1189

図46 (続き)

44300	HEC	NM 006101.1	976	atgtctagagtggttgagaaaa	307588	-	see also 4245 line
44301	HEC	NM 006101.1	1785	cagcgggaatacaactagtgtg	307616	-	see also 4245 line
44302	PRC1	NM 003981.2	1170	ttgtgcggtttaaaaaactactat	307643	-	see also 19588 line
44303	PRC1	NM 003981.2	567	tgcccaactatgatattgacagt	307633	-	see also 19588 line
44304	HCAP-G	NM 022346.2	763	gaaggcagtgatcatatgtt	307672	-	see also 19589 line
44305	HCAP-G	NM 022346.2	2126	gaagtcgggattgaaccattta	307718	-	see also 19589 line
44306	GDC27	NM 001256.2	207	ctgcagagaagcgtttatgcaga	307758	-	see also 812 line
44307	INCENP	NM 020238.1	2562	ggctatcatccaccagtactacc	307868	-	see also 19591 line
44308	INCENP	NM 020238.1	125	agcgcgatgtccaccagagaattc	307854	-	see also 19591 line
44309	STAG1	NM 005862.1	3267	cagctgctttggcccttaacttt	307949	-	see also 4074 line
44310	STAG1	NM 005862.1	3952	tgctgttcggggctctaattggagg	307969	-	see also 4074 line
44311	PSEN1	NM 000021.2	1037	tcgaaaaggtccactctgtatgc	308003	-	see also 19592 line
44312	PSEN1	NM 000021.2	1479	ttcgtagccatttaattgtgtt	308012	-	see also 19592 line
44313	PSEN2	NM 000447.1	616	cgagagcggaagcacgtgatcgc	308022	-	see also 19593 line
44314	PSEN2	NM 000447.1	540	aggaccctgacgcgtatgtctgt	308020	-	see also 19593 line
44315	SC65	NM 006455.2	1059	ccggccatagcagatctcttgc	308081	-	see also 4525 line
44316	TSGA2	NM 080860.1	360	tgctcgatatatcgggagaatatg	308085	-	see also 19595 line
44317	TSGA2	NM 080860.1	307	agctacgaattcggtaaaagaca	308083	-	see also 19595 line
44318	C10orf9	NM 145012.3	401	atgtgtcgtcttgcaatatatt	308119	-	see also 9764 line
44319	C10orf9	NM 145012.3	789	gagctagagcgacacgtttcttga	308124	-	see also 9764 line
44320	CCNK	NM 003858.2	287	ggcgctcggttcactcttctgt	308132	-	see also 2622 line
44321	CCNK	NM 003858.2	854	gtcccgctcgacgttttgaaga	308148	-	see also 2622 line
44322	GCNL2	NM 030937.2	2062	ggcggaataatccgggaaaatac	308157	-	see also 19598 line
44323	GCNL2	NM 030937.2	1337	tgctcgggaaaaaggttgatcca	308152	-	see also 19598 line
44324	CEP2	NM 007186.2	2130	tgccgctcgcgaaggggttaaatgt	308170	-	see also 19599 line
44325	CEP2	NM 007186.2	1192	acggctgcctctcagctctatgg	308162	-	see also 19599 line
44326	FLJ13265	NM 024877.1	51	cccggctcgggctctatcgttagg	308202	-	see also 19600 line
44327	FLJ13265	NM 024877.1	50	tcgccgctcgggctctatcgttag	308201	-	see also 19600 line
44328	FLJ13265	NM 024877.1	396	gcctgttttggtggtgcaaaatg	308205	-	see also 19600 line
44329	FLJ40137	NM 173478.1	206	gtcgcacacagagacgattgaaga	308207	-	see also 19601 line
44330	FLJ40137	NM 173478.1	596	ctccaggctctaggctatctaca	308218	-	see also 19601 line
44331	FLJ40432	NM 152523.1	443	caggcgagcttactataaaagtat	308228	-	see also 19602 line
44332	FLJ40432	NM 152523.1	444	aggcgagcttactataaaagtata	308229	-	see also 19602 line
44333	LOC91768	NM 138375.1	515	ccggaggaataaccatagactcc	308251	-	see also 9604 line
44334	LOC91768	NM 138375.1	360	tacccaagtcggggacttggaagt	308246	-	see also 9604 line
44335	LOC91768	NM 138375.1	385	gaaggagggaagacaatcaactgg	308247	-	see also 9604 line
44336	PARD3	NM 019619.2	3515	atcgtcggcgagccatagtgtt	308350	-	see also 7724 line
44337	PARD3	NM 019619.2	3516	tcgtcggcgagccatagtgtt	308351	-	see also 7724 line
44338	PARD6A	NM 016948.1	640	agcggttcacaggaaatcttcatc	308356	-	see also 6978 line
44339	SPIN	NM 006717.1	666	cagctgcacctgtcatgaacaca	308361	-	see also 19606 line
44340	SPIN	NM 006717.1	829	cagctcgttagtgcacaaacagtg	308364	-	see also 19606 line
44341	APEG1	NM 005876.3	2470	caactccgagcagggaataacctga	308366	-	see also 4087 line
44342	BTG1	NM 001731.1	618	ctctgggtgacccctatgaagt	308378	-	see also 19608 line
44343	BTG1	NM 001731.1	445	agctgctggcagaacattataaa	308375	-	see also 19608 line

図46 (続き)

1190

44344	CD164	NM_006016.3	539	cacaacgtgtggaagttatcc	308392	-	see also 4200 line
44345	CD164	NM_006016.3	428	cagtgccaacagccaattctaca	308390	-	see also 4200 line
44346	CGRRF1	NM_006568.1	539	atccatttgtagcgtatagacc	308416	-	see also 19610 line
44347	CGRRF1	NM_006568.1	575	atgacgggaagatttatgatatt	308417	-	see also 19610 line
44348	1.Dec	NM_017418.1	595	gtgttacatgatgtgttttac	308427	-	see also 19611 line
44349	1.Dec	NM_017418.1	593	ccgtgttaacacatgatgttttt	308426	-	see also 19611 line
44350	DLEC1	NM_005106.2	1602	aaccgtggtttgtgaacaac	308464	-	see also 19612 line
44351	DLEC1	NM_005106.2	1662	cccgggacatgtattatgttg	308466	-	see also 19612 line
44352	DLEC1	NM_005106.2	3842	cccgaaccccttcctgaataac	308496	-	see also 19612 line
44353	DRIM	NM_014503.1	3419	gtgttcagcacaggtatctaaac	308612	-	see also 19613 line
44354	DRIM	NM_014503.1	7009	ctcgtcctaactgaattacgaaca	308710	-	see also 19613 line
44355	DRIM	NM_014503.1	5596	gtgttcgagttccattagcttt	308674	-	see also 19613 line
44356	EMP3	NM_001425.1	560	accagcgtggcggtttactgg	308748	-	- breast cancer(乳癌)
44357	EMP3	NM_001425.1	391	aacatgggctgcagtaattgca	308747	-	see also 44356 line
44358	EMP3	NM_001425.1	374	tggaaacaacagacacaaacacag	308746	-	see also 44356 line
44359	GNMB	NM_002510.1	356	ctcgtgggctcaaatataacatt	308757	-	see also 1617 line
44360	GNMB	NM_002510.1	151	tgcgcgaacacgatttcatgatg	308749	-	see also 1617 line
44361	LD0C1	NM_012317.2	418	tgcctacatcgagatgagtagc	308797	-	see also 19615 line
44362	LD0C1	NM_012317.2	258	ccctcccggaacggttaattgg	308794	-	see also 19615 line
44363	MDM4	NM_002393.1	1444	gacacagacagcgggaacattatt	308843	-	see also 1538 line
44364	MDM4	NM_002393.1	235	caggcgcgaagtgaaatgttc	308802	-	see also 1538 line
44365	NCK2	NM_003581.1	983	gaacttcgtgtcccttaaacg	308853	-	see also 19617 line
44366	NCK2	NM_003581.1	725	gagtggtggaatgcaaaatgac	308851	-	see also 19617 line
44367	PMP22	NM_000304.2	274	cacgctcgtcagccaatggatcg	308854	-	see also 19618 line
44368	PMP22	NM_000304.2	579	ggcatcgaactcggattactcc	308858	-	see also 19618 line
44369	PMP22	NM_000304.2	299	ggcaatggacacgacactgactc	308855	-	see also 19618 line
44370	RARRES1	NM_002888.1	659	cacagtggtcacactactacttg	308877	-	see also 19619 line
44371	RARRES1	NM_002888.1	445	cccagacaacacatcaatgtaac	308871	-	see also 19619 line
44372	RARRES1	NM_002888.1	444	accagacacacacatcaatgtaa	308870	-	see also 19619 line
44373	TP5311	NM_006034.2	346	aggtgcattcgtccaagatcagc	308878	-	see also 19620 line
44374	TP5311	NM_006034.2	755	cagcatttactactattaccag	308880	-	see also 19620 line
44375	AMSH	NM_006463.2	297	tccgctctggagttgagattatc	308882	-	see also 19621 line
44376	AMSH	NM_006463.2	296	tccgctctggagttgagattat	308881	-	see also 19621 line
44377	EDN1	NM_001955.2	368	ctgtccctgagatgataaagagt	308899	-	see also 19622 line
44378	EDN1	NM_001955.2	366	tgtctgtccctgagtgataaaga	308898	-	see also 19622 line
44379	FGA	NM_000508.2	1399	acgctgtcgttcatgcttataaac	308927	-	see also 19623 line
44380	FGA	NM_000508.2	339	tctgtgacacataataatagg	308908	-	see also 19623 line
44381	FGB	NM_005141.1	791	tctgtcaaacctgatagattat	308957	-	see also 19624 line
44382	FGB	NM_005141.1	1239	gacaatgacggctgtgttaacatc	308968	-	see also 19624 line
44383	FGB	NM_005141.1	1330	atccaacacggcagatcacctgg	308973	-	see also 19624 line
44384	FGFR1OP	NM_007045.2	286	taccaaacgagctgttttagtgg	308976	-	see also 19625 line
44385	FGFR1OP	NM_007045.2	934	ctggatgcaacccccccttaaaaa	308989	-	see also 19625 line
44386	FGG	NM_000509.3	934	gacaaagtaccgctcaacatgac	309021	-	see also 19626 line
44387	FGG	NM_000509.3	839	ctgccatcccatgcatgaaga	309019	-	see also 19626 line

図46 (続き)

1191

44388	SAS	NM 005981.2	284	cacatcatcgccggagctattgc	309032	-	see also 19627 line
44389	SAS	NM 005981.2	563	accctgtatcaacaagattatga	309038	-	see also 19627 line
44390	SAS	NM 005981.2	764	gcaaaccccgagtcctttctatg	309041	-	see also 19627 line
44391	TBC1D8	NM 007063.2	1644	cagaacgaacgggaattgctgc	309050	-	see also 4943 line
44392	TBC1D8	NM 007063.2	1805	gcagatgctcccgagctacttca	309051	-	see also 4943 line
44393	BST2	NM 004335.2	55	ggggataagcgcgtgaagcttct	309074	-	see also 19629 line
44394	BST2	NM 004335.2	120	gggggtgccccttgattattcca	309076	-	see also 19629 line
44395	C6orf108	NM 008443.2	470	ggccctctggatcgactactcg	309079	-	-
44396	DAB2	NM 001343.1	1122	ctcgtctactccgctgagtaag	309094	-	see also 887 line
44397	DAB2	NM 001343.1	845	tcctgttagtgagatctaaactct	309090	-	see also 887 line
44398	EMP1	NM 001423.1	249	gtccacatcgctactgtttattat	309119	-	see also 19631 line
44399	EMP1	NM 001423.1	250	ttccacatcgctactgtttattg	309120	-	see also 19631 line
44400	EMP2	NM 001424.2	452	tggcgctccattatcacagaca	309134	-	see also 19632 line
44401	EMP2	NM 001424.2	490	acgacaaaacgcggaattctat	309136	-	see also 19632 line
44402	EMP2	NM 001424.2	254	cacgaattgcacagctcatcaatg	309132	-	see also 19632 line
44403	HDGFRP3	NM 016073.2	399	aacgaaggattgtgggaataga	309141	-	-
44404	HDGFRP3	NM 016073.2	275	agcaaacagatctatctctct	309138	-	see also 44403 line
44405	HDGFRP3	NM 016073.2	329	tcocaaagaccttttccatata	309140	-	see also 44403 line
44406	LAMP3	NM 014398.2	1391	tcgccttaagggttcaatcatct	309165	-	see also 19633 line
44407	LAMP3	NM 014398.2	1390	atccgcttaagggttcaatcatc	309164	-	see also 19633 line
44408	LAMP3	NM 014398.2	1308	ctcgtctgactacacaaattgctc	309163	-	see also 19633 line
44409	LGII	NM 005097.1	1060	caggcaaatccactgtatgatgc	309198	-	see also 3574 line
44410	LGII	NM 005097.1	628	tcgggggactaaagctcaattat	309186	-	see also 3574 line
44411	PDOD1LG	NM 014143.2	413	ggcgactcaagcgaattactgt	309250	-	see also 19635 line
44412	PDOD1LG	NM 014143.2	115	cagggttccaaaggaccttatgt	309237	-	see also 19635 line
44413	PRG4	NM 005807.1	3676	cagttactggcgttttaccatga	309309	-	see also 4055 line
44414	PRG4	NM 005807.1	321	ctgtcccgattatgagatttct	309275	-	see also 4055 line
44415	RBBP7	NM 002893.2	1184	atgggatcgtgtaacttaaat	309372	-	see also 19637 line
44416	RBBP7	NM 002893.2	1185	tgggatctgctgaacttaaat	309373	-	see also 19637 line
44417	RBBP7	NM 002893.2	1163	tgggataagaccgctagattttat	309369	-	see also 19637 line
44418	SIL	NM 003035.1	3622	ctgtcaactcgcgcgaaccacaaat	309477	-	see also 2034 line
44419	SIL	NM 003035.1	2022	aacgaagagtatctctataagacc	309436	-	see also 2034 line
44420	SPOCK	NM 004598.2	302	cgccttcgagacgatgattatt	309503	-	see also 19639 line
44421	SPOCK	NM 004598.2	303	cgccttcgagacgatgattatt	309504	-	see also 19639 line
44422	TM4SF8	NM 005724.4	953	ctcatcaactcgcgggaactatgc	309526	-	see also 3971 line
44423	TM4SF8	NM 005724.4	802	gggggtgagctcgtatagtagtga	309525	-	see also 3971 line
44424	TM4SF9	NM 005723.2	671	tgcggagtgctagcattgitt	309532	-	see also 3970 line
44425	TM4SF9	NM 005723.2	668	cactcggcgagttctagcatttg	309531	-	see also 3970 line
44426	TPD52L2	NM 003288.2	433	gtctatgcgcctatgaaac	309541	-	see also 19642 line
44427	TPD52L2	NM 003288.2	491	ccagtcagacacctctacaagaag	309542	-	see also 19642 line
44428	TSPAN-1	NM 005727.2	698	aaggctcaacgacccaaagtaga	309551	-	see also 19643 line
44429	TSPAN-1	NM 005727.2	212	ggcatctgggtgtcaatcgatgg	309546	-	see also 19643 line
44430	TSPAN-2	NM 005725.2	663	tgtgtgcgatacgaactcaag	309570	-	see also 3972 line
44431	TSPAN-2	NM 005725.2	107	tggatcgcccgctgattgcttttg	309556	-	see also 3972 line

図46 (続き)

1192

44432	ITSPAN-2	NM_005725.2	658	tcctctgctgctgcatcagaac	309569	-	see also 3972 line
44433	FLJ32871	NM_144674.1	841	agctcgccgcagctgctogatga	309577	-	see also 19645 line
44434	FLJ32871	NM_144674.1	1293	caggagacatcccgagttgaagc	309580	-	see also 19645 line
44435	EML1	NM_004434.1	1014	ctccacgtcattggaatagttt	309595	-	see also 19646 line
44436	EML1	NM_004434.1	910	ctgctgagatccgcatagcaaca	309590	-	see also 19646 line
44437	SPRY2	NM_005842.2	1247	ctggttgcgcgtgtaaaaactca	309641	-	see also 19647 line
44438	SPRY2	NM_005842.2	665	agcactgcgaggtccattctct	309626	-	see also 19647 line
44439	SPRY2	NM_005842.2	1244	ggcctggttgcgcgtgtataaac	309639	-	see also 19647 line
44440	TUBGCP2	NM_006659.1	2576	cccgctgagcatctctatagcacc	309670	-	see also 4704 line
44441	TUBGCP2	NM_006659.1	1464	cacctgcccgggtggctaaagaga	309660	-	see also 4704 line
44442	TUBGCP2	NM_006659.1	2109	ggcgacgcggaatctoaacttcg	309666	-	see also 4704 line
44443	TUBGCP3	NM_006322.3	1141	gaactgctgggcagagactttgt	309697	-	see also 4423 line
44444	TUBGCP3	NM_006322.3	1949	tccagctacgacttggatcagc	309730	-	see also 4423 line
44445	TUBGCP3	NM_006322.3	2194	ggcggaagcagatggatatacatc	309739	-	see also 4423 line
44446	PLEK2	NM_016445.1	1078	agccgagtgagattgaagctatca	309774	-	see also 6860 line
44447	PLEK2	NM_016445.1	253	ccgaccctctcttaataagctga	309760	-	see also 6860 line
44448	CAP1	NM_006367.2	531	atgaatgagccgcaatgtttta	309784	-	see also 19651 line
44449	CAP1	NM_006367.2	539	tgcgcgaatgttttatcaaac	309785	-	see also 19651 line
44450	CAP1	NM_006367.2	111	cgccctgagagcagatctctcatc	309775	-	see also 19651 line
44451	CAP2	NM_006366.1	482	ttcgccgctcagcagaaagcatcc	309793	-	see also 19652 line
44452	CAP2	NM_006366.1	1382	gagcccaagctcatctgaaatga	309820	-	see also 19652 line
44453	KISS1	NM_002256.2	203	tggagagccattagaaaagggtg	309824	-	see also 19653 line
44454	PEX11A	NM_003847.1	333	ctggtacacctgattgtcttaac	309830	-	see also 19654 line
44455	PEX11A	NM_003847.1	337	tacctgattatgcttaacatta	309832	-	see also 19654 line
44456	PEX11B	NM_003846.1	379	cagctgttactcagctactattt	309854	-	see also 2614 line
44457	PEX11B	NM_003846.1	640	ctctagagctggtgcagaaatgc	309859	-	see also 2614 line
44458	PEX16	NM_004813.1	891	aggagaccatcgcagaggttttg	309861	-	see also 19656 line
44459	PEX3	NM_003630.1	215	aagcacagacacatacatattt	309870	-	see also 2437 line
44460	PEX3	NM_003630.1	449	tgggggtccaggttaaacataatt	309879	-	see also 2437 line
44461	PEX3	NM_003630.1	211	gccaagcacgacgacatatca	309869	-	see also 2437 line
44462	PF	NM_002857.1	525	tcccatcatgcagagattatg	309912	-	see also 1890 line
44463	PXMP3	NM_000318.1	1050	ctctactggtgcacctaattgt	309934	-	see also 19659 line
44464	PXMP3	NM_000318.1	716	tgttagaagacagatgctatga	309926	-	see also 19659 line
44465	GOLGB1	NM_004487.1	130	ctgagccgattatcagattagc	309961	-	see also 19660 line
44466	GOLGB1	NM_004487.1	7580	agcgacatctctataattcttg	310111	-	see also 19660 line
44467	EBNA1BP	NM_006824.1	853	cagtgctaaacacagaggtataaaa	310178	-	see also 19661 line
44468	EBNA1BP	NM_006824.1	529	tacgaagcagccactgattatt	310173	-	see also 19661 line
44469	EBNA1BP	NM_006824.1	855	gtgctaaacgagcgtataaaac	310179	-	see also 19661 line
44470	RRS1	NM_015169.2	713	ccctacgcgacacacagatgaagg	310187	-	see also 19662 line
44471	RRS1	NM_015169.2	535	cccgagacgacacacaaagatgg	310186	-	see also 19662 line
44472	TINF2	NM_012461.1	355	tccggcagctactggagttctgc	310192	-	see also 19663 line
44473	TINF2	NM_012461.1	334	cggacgctcgtgggaacatttco	310191	-	see also 19663 line
44474	TINF2	NM_012461.1	417	ggcacccagcagccttggatg	310193	-	see also 19663 line
44475	PALM	NM_002579.1	832	ctccggaggtggcgaactcatcc	310204	-	see also 19664 line

図46 (続き)

1193

44476	IPALM	NM_002579.1	1257	cccaggacctcgcacatgaagaag	310205	-	see also 19664 line
44477	IPALM	NM_002579.1	646	agccatgtactcgtgtgagatca	310203	-	see also 19664 line
44478	SOC2	NM_003877.3	866	aactatcttgaatcgaatacc	310215	-	see also 2637 line
44479	SOC2	NM_003877.3	860	tggaccaactaatcttgaatcg	310214	-	see also 2637 line
44480	SOC3	NM_003955.2	702	ggccacctggacctctctatgagaaa	310221	-	see also 19666 line
44481	SOC3	NM_003955.2	583	tcctcccaagaagaagcctattaca	310219	-	see also 19666 line
44482	SOC4	NM_004232.2	895	aggatcacaggagctatgtctgg	310246	-	see also 2824 line
44483	SOC4	NM_004232.2	350	tgcgatatacaacggtagaatga	310225	-	see also 2824 line
44484	SOC7	NM_080867.2	1649	ggcatcgatgcccttcoaatcc	310306	-	see also 9532 line
44485	SOC7	NM_080867.2	879	aacgacacactgctctataaat	310279	-	see also 9532 line
44486	SOC7	NM_080867.2	1412	cgctatagtcttctcttctatgc	310295	-	see also 9532 line
44487	NDRG4	NM_020465.1	635	tcgggcttaactagcaactttacc	310315	-	see also 19669 line
44488	NDRG4	NM_020465.1	479	tccgggttcaagtattgtattgg	310313	-	see also 19669 line
44489	PLEKHC1	NM_006832.1	1610	agcagatcacgactgataaact	310356	-	see also 19670 line
44490	PLEKHC1	NM_006832.1	890	tgcctgcgcgattcaagtattac	310343	-	see also 19670 line
44491	APG5L	NM_004849.1	377	aactgtttcacgctatatacagg	310371	-	see also 3359 line
44492	APG5L	NM_004849.1	1098	ctgagtaacccgataattttot	310392	-	see also 3359 line
44493	BCAS3	NM_017679.2	1672	accataacgaaccggcaagttaa	310428	-	see also 7109 line
44494	BCAS3	NM_017679.2	1366	cagccttgttgtctacacatat	310427	-	see also 7109 line
44495	BCAS4	NM_017843.2	256	cagtcctaaagccaaactgaca	310457	-	see also 19673 line
44496	BCAS4	NM_017843.2	208	ctgacctgatcaggagtgatact	310455	-	see also 19673 line
44497	BCL9	NM_004326.1	3805	ccggtataccatgatgctatca	310511	-	see also 19674 line
44498	BCL9	NM_004326.1	4424	accggaatacctcgtgttgatct	310518	-	see also 19674 line
44499	CDR1	NM_004065.1	528	cccaaatatcccggaagacttgg	310528	-	see also 19675 line
44500	CDR1	NM_004065.1	674	tggattttccgggaagatctgg	310532	-	see also 19675 line
44501	CLN5	NM_006493.1	2120	tctctacgactgttccaaatttg	310548	-	see also 19676 line
44502	CLN5	NM_006493.1	1625	cgtccaaacacctgatctctatt	310535	-	see also 19676 line
44503	CLN5	NM_006493.1	1640	tccttattgtcaagctaaagata	310536	-	see also 19676 line
44504	DACH	NM_004392.2	1258	tgcaccaacgcaagttctagacc	310563	-	see also 2953 line
44505	DACH	NM_004392.2	1286	ggcctctaaaggaggactcaagt	310564	-	see also 2953 line
44506	DACH2	NM_053281.2	1459	ctgcgactggagctctatagaga	310604	-	see also 9490 line
44507	DACH2	NM_053281.2	660	ggctgaggcgagatgaacttcaga	310590	-	see also 9490 line
44508	FRAT1	NM_005479.2	996	aactgcgcgagcggttcttctg	310616	-	see also 19679 line
44509	FRAT1	NM_005479.2	833	aggcctgtgcgaaggcttcttcg	310614	-	see also 19679 line
44510	FSTL3	NM_005860.1	188	tgtctgtcctccgcgaacattga	310617	-	see also 19680 line
44511	FSTL3	NM_005860.1	192	gtcctcctcggcaacattgacacc	310619	-	see also 19680 line
44512	GPC3	NM_004484.2	435	aactaacacacgattgaacatg	310623	-	see also 3040 line
44513	GPC3	NM_004484.2	948	ggcgaatgtctaccagaatgtgg	310632	-	see also 3040 line
44514	GPC3	NM_004484.2	1818	ctccgaagcaacacagagataago	310663	-	see also 3040 line
44515	HHCM	NM_006543.1	738	atccatctgtgtcagtaaac	310679	-	see also 19682 line
44516	HHCM	NM_006543.1	509	tggccttaatacagataagctgt	310672	-	see also 19682 line
44517	IER3	NM_003897.2	408	ccgctctcggagccctttaatct	310689	-	apoptosis
44518	IER3	NM_003897.2	407	cccgctctcggagccctttaatc	310689	-	see also 44517 line
44519	IER3	NM_003897.2	412	tctctagagccctttaatctgact	310691	-	see also 44517 line

図46 (続き)

1194

44520	LMO2	NM_005574.2	1481	tacaggtggaactaagatcaatgg	310697	-	see also 3876 line
44521	LMO2	NM_005574.2	1039	gtctctggccatcgaaagaaaga	310692	-	see also 3878 line
44522	OS-9	NM_006812.1	985	cccgaaccaagatgacagtaagg	310711	-	see also 19684 line
44523	OS-9	NM_006812.1	1171	tgcggattgattcgattcattag	310721	-	see also 19684 line
44524	SEMA3C	NM_006379.2	2097	accgctgccacatctctgtaca	310781	-	see also 4472 line
44525	SEMA3C	NM_006379.2	1340	tccatgattctgcaatatgtcc	310750	-	see also 4472 line
44526	SEMA3C	NM_006379.2	1507	cccgaagacaacactagtgtatg	310758	-	see also 4472 line
44527	SS18	NM_005637.1	486	tggatccatgagggttaaacacc	310805	-	see also 19686 line
44528	SS18	NM_005637.1	612	gccaaacacaggctcaatgatgc	310811	-	see also 19686 line
44529	TACC3	NM_006342.1	1104	gagcggaccctgtaaaactagaat	310833	-	see also 19687 line
44530	TACC3	NM_006342.1	1102	aggagcgggaactgtaaaactaga	310832	-	see also 19687 line
44531	TCL1A	NM_021966.1	160	atcgagataaagatagattaca	310846	-	see also 19688 line
44532	TCL1A	NM_021966.1	249	cccaagcctgctgcctctatgt	310847	-	see also 19688 line
44533	TCL1B	NM_004918.2	102	gcctgcattctacgaagatgagg	310849	-	-
44534	TCL1B	NM_004918.2	189	ctccagggcagcagatatgaac	310850	-	see also 44533 line
44535	TCL1B	NM_004918.2	407	atcagccggagagagaaagactga	310851	-	see also 44533 line
44536	CRADD	NM_003805.2	260	aaacatgctctctgctggtatctc	310856	-	see also 19689 line
44537	CRADD	NM_003805.2	209	gacggaaaaccatattcaagaaa	310853	-	see also 19689 line
44538	CRADD	NM_003805.2	245	cacaggcctccggaacaacatgc	310855	-	see also 19689 line
44539	DIABLO	NM_019887.2	47	gctgtctgcgcagcgttaacttca	310860	-	see also 19690 line
44540	DIABLO	NM_019887.2	51	gtcgcagcgttaacttcttcttc	310862	-	see also 19690 line
44541	DIABLO	NM_019887.2	550	ggcgcagatcaggcctctataac	310881	-	see also 19690 line
44542	FADD	NM_003824.2	641	tgcctgtcagctcaaaagtctca	310888	-	see also 19691 line
44543	FADD	NM_003824.2	719	tgcgggagctcaactgagaattg	310889	-	see also 19691 line
44544	DAP	NM_004394.1	219	agctgtggaatcggaattgtgc	310891	-	apoptosis
44545	CIDEB	NM_014430.1	1649	tacggctctactctatgattg	310896	-	see also 19692 line
44546	CIDEB	NM_014430.1	1215	tactcaggtcagtatctataata	310894	-	see also 19692 line
44547	BAK1	NM_001188.2	309	aggtttccgcagctacgttttt	310899	-	see also 19693 line
44548	BCL2L1	NM_006538.1	372	acgactgttagcttactattgtcc	310911	-	see also 19694 line
44549	BCL2L1	NM_006538.1	352	caaccacgaatggttattcttacg	310909	-	see also 19694 line
44550	BIK	NM_001197.3	355	gacataagggatggtttctagaag	310914	-	see also 19695 line
44551	BIK	NM_001197.3	387	cggtttcaccacacttaaggaga	310916	-	see also 19695 line
44552	BNIP3L	NM_004331.1	514	gtccagtagagcccgaaacatttc	310921	-	see also 19696 line
44553	BNIP3L	NM_004331.1	515	tccagtagaccgaaacaaattcc	310922	-	see also 19696 line
44554	CIAS1	NM_004895.3	3459	tctcgtgtactcagcactaataca	310967	-	see also 19697 line
44555	CIAS1	NM_004895.3	911	caagctaatgactgacttcaatg	310927	-	see also 19697 line
44556	CIAS1	NM_004895.3	1340	cccggagctccattcaagatgg	310940	-	see also 19697 line
44557	E124	NM_004879.2	812	tgcaccagcgggttcttaacata	310992	-	see also 3388 line
44558	PDCD5	NM_004708.2	306	gacaactaagtagaagatgataca	310998	-	apoptosis
44559	TRADD	NM_003789.2	464	gacgagagcgcgtgttgattg	311000	-	see also 19699 line
44560	TRADD	NM_003789.2	740	gctgctctgtgggtctctcaaatg	311003	-	see also 19699 line
44561	BCL2L1	NM_001191.2	642	ggcagcgcgcaggtttgaactgc	311007	-	see also 772 line
44562	BCL2L1	NM_001191.2	708	caccceggagacagatatacaga	311009	-	see also 772 line
44563	API5	NM_006595.1	360	atctattcgacgtcaagcaatta	311021	-	see also 19700 line

1195

図46 (続き)

44564	API5	NM_006595.1	419	ctcgaagtcgacagatataactaacg	311024	-	see also 19700 line
44565	BCL2A1	NM_004049.2	548	ttgcggaggtcataatgaataac	311064	-	see also 19701 line
44566	BCL2A1	NM_004049.2	545	ttgttcggaggttcataatgaat	311063	-	see also 19701 line
44567	BCL2L2	NM_004050.2	413	caccagagtcctcgatgaacttt	311067	-	see also 19702 line
44568	BCL2L2	NM_004050.2	420	gtctcagatgaacttttcaagg	311071	-	see also 19702 line
44569	BECN1	NM_003766.2	1288	agcgcgagacacgtttttgtcttc	311093	-	see also 2577 line
44570	BECN1	NM_003766.2	361	ttgtgtctctcgcagatcatcc	311075	-	see also 2577 line
44571	BIRC2	NM_001166.2	1188	ttccaggtccctcgatcaaaac	311101	-	see also 743 line
44572	BIRC2	NM_001166.2	1187	ttccaggtccctcgatcaaaac	311100	-	see also 743 line
44573	BIRC2	NM_001166.2	1192	aggtccctcgatcaaaacatta	311103	-	see also 743 line
44574	BIRC3	NM_001165.3	4182	gtctactaacgcgggaattatt	311174	-	see also 19705 line
44575	BIRC3	NM_001165.3	3767	gagttcatcgcgaagtcaagc	311162	-	see also 19705 line
44576	BIRC8	NM_033341.2	1913	gtcagcgcgggttatgtattca	311199	-	see also 19706 line
44577	BIRC8	NM_033341.2	1334	ttgtatagttcaagagataaag	311190	-	see also 19706 line
44578	BNIP1	NM_001205.1	90	ttcagatatcogtgatgttca	311206	-	see also 19707 line
44579	BNIP1	NM_001205.1	32	cacgtccggtatgttaaccaaga	311202	-	see also 19707 line
44580	FAIM2	NM_012306.2	498	ttgctgtctgtggtctctttact	311230	-	see also 19708 line
44581	FAIM2	NM_012306.2	439	tcgtcgagttctgtcagaagg	311229	-	see also 19708 line
44582	GG2-1	NM_014350.1	504	atgacocgtgtcagtttcaatca	311233	-	see also 19709 line
44583	GG2-1	NM_014350.1	500	ttgtatgaccgtgtcagtttcc	311232	-	see also 19709 line
44584	SNCA	NM_000345.2	142	gacaaaagggtgttctctatg	311241	-	apoptosis
44585	SNCA	NM_000345.2	156	ttctctatgtagcttccaaaacc	311242	-	see also 44584 line
44586	TAX1BP1	NM_006024.4	1183	aaactcggcgaaggtgttcttct	311286	-	see also 19710 line
44587	TAX1BP1	NM_006024.4	257	ttgagtagtctcgtctgattatta	311255	-	see also 19710 line
44588	TOSO	NM_005449.3	1062	gcgacccgcgtcccaaaacaaca	311329	-	see also 19711 line
44589	TOSO	NM_005449.3	1061	cgcgacccgcgtcccaaaacaac	311328	-	see also 19711 line
44590	TOSO	NM_005449.3	365	gcgagttactctgaagcaatac	311320	-	see also 19711 line
44591	MCL1	NM_021960.3	566	ttggtcggggaatctggtaataa	311335	-	see also 19712 line
44592	MCL1	NM_021960.3	1155	gagctgggttggcattatctaata	311353	-	see also 19712 line
44593	AXUD1	NM_033027.2	1382	gcctggcagcagctcttgagtttc	311362	-	see also 9349 line
44594	AXUD1	NM_033027.2	1044	ccccatggcggttggaattta	311358	-	see also 9349 line
44595	BCL2L12	NM_052842.2	779	cccaagcttccgccctttctacg	311372	-	see also 19714 line
44596	BCL2L12	NM_052842.2	749	ttggagcgtcacatgcacaaattga	311371	-	see also 19714 line
44597	BCLG	NM_030766.1	772	cacgtccctgtagcttcaagttc	311393	-	see also 19715 line
44598	BCLG	NM_030766.1	773	acgtgcctgtagcttcaagttot	311394	-	see also 19715 line
44599	CARD6	NM_032587.2	1126	ctccttagatcagaggtgaagt	311430	-	see also 19716 line
44600	CARD6	NM_032587.2	2532	gcgcaggtaaaagttttgtatt	311460	-	see also 19716 line
44601	CARD6	NM_032587.2	1388	ttcaaacgcgaatcatgtcaaac	311436	-	see also 19716 line
44602	CARD8	NM_014959.1	969	cccccccggaagataaagttc	311485	-	see also 19717 line
44603	CARD8	NM_014959.1	1019	ttgttaacaaaggcagatagatga	311486	-	see also 19717 line
44604	CARD9	NM_022352.2	443	ccgcgtcttctcaatgatacto	311494	-	see also 19718 line
44605	CTNNAL1	NM_003798.1	1022	gagcgtatggaggactttactga	311534	-	see also 2597 line
44606	CTNNAL1	NM_003798.1	517	ggcagaccgagtagtcattaaac	311512	-	see also 2597 line

Parkinson disease(パーキンソン病)、Alzheimer
disease(アルツハイマー病)

図46 (続き)

1196

44607	MAEA	NM_005882.2	1004	gtgtgtgtccgagaccacaaaga	311584	-	see also 19721 line
44608	MAEA	NM_005882.2	956	tacgtctacggctacaattctct	311581	-	see also 19721 line
44609	MAEA	NM_005882.2	1183	atocgtgagcaacgataaatact	311587	-	see also 19721 line
44610	MGEI	NM_0032346.1	955	agcatgctcaacagctgctaattt	311603	-	see also 19722 line
44611	MGEI	NM_0032346.1	440	agggccttcacacagctttacc	311592	-	see also 19722 line
44612	NOKAP1	NM_013436.2	2793	aaactactagcccatatgtgtatg	311687	-	see also 5432 line
44613	NOKAP1	NM_013436.2	2000	atgagttcaagcatgaactatg	311658	-	see also 5432 line
44614	PDCD6IP	NM_013374.2	2610	atcgtatggccagataataatg	311747	-	see also 19724 line
44615	PDCD6IP	NM_013374.2	998	gtggcatctctcatatgatgaata	311731	-	see also 19724 line
44616	PPP1R13B	NM_015316.1	3104	ctcaaccataaagcagattgaaa	311805	-	see also 19725 line
44617	PPP1R13B	NM_015316.1	162	atccgatgatttaactgtttt	311752	-	see also 19725 line
44618	TAIP-2	NM_024969.2	1672	cccgagcaattcgttgactatg	311833	-	see also 8829 line
44619	TAIP-2	NM_024969.2	1164	ctgtcgtcaactccgtagaatat	311822	-	see also 8829 line
44620	TAIP-2	NM_024969.2	1166	gtcgtcaactccgtagaatatc	311823	-	see also 8829 line
44621	TEGT	NM_003217.1	117	actgaagaaggtctatgcaagt	311846	-	see also 19727 line
44622	TEGT	NM_003217.1	652	ctggcactgcattgatctctct	311851	-	see also 19727 line
44623	TRIAD3	NM_019011.3	1378	acctctgtcgtggtttctataat	311868	-	see also 19728 line
44624	TRIAD3	NM_019011.3	1779	cccaacgtcgggtcaactatga	311874	-	see also 19728 line
44625	C6	NM_000065.1	1218	agcgaataatcgtatgactttg	311907	-	see also 19729 line
44626	C6	NM_000065.1	1207	ctgctttgtacagccgaatttc	311904	-	see also 19729 line
44627	C7	NM_000587.1	695	cacgaagtatacttccatcacacc	311964	-	see also 19730 line
44628	C7	NM_000587.1	870	tgcctaccgaagattaatgacc	311967	-	see also 19730 line
44629	C7	NM_000587.1	656	gtcgaagcgcctccttttttga	311960	-	see also 19730 line
44630	C8A	NM_000562.1	714	acctgtgaactctctctacttg	312006	-	see also 409 line
44631	C8A	NM_000562.1	290	tccgtgccaggacaaaaggtacc	311996	-	see also 409 line
44632	C8B	NM_000066.1	842	gtatcgtcgggcaaacactatatt	312064	-	see also 19732 line
44633	C8B	NM_000066.1	954	aagcctcatgctccattacagagt	312072	-	see also 19732 line
44634	C9	NM_001737.2	1137	gggtctctagggaggaactctatga	312108	-	see also 19733 line
44635	C9	NM_001737.2	1422	ctcggaggaaacgtgattgatgt	312122	-	see also 19733 line
44636	PAQR10	NM_198403.1	421	tccgaccgagtggtcaactattt	312138	-	see also 10321 line
44637	PAQR10	NM_198403.1	509	tgcgtggtggtgtgtgattatg	312140	-	see also 10321 line
44638	LIMS1	NM_004987.2	1069	aactagctgagaccttaggaagg	312144	-	-
44639	CLUL1	NM_014410.4	1180	ggcgatcaggttggtcaatgtat	312165	-	see also 19735 line
44640	CLUL1	NM_014410.4	1490	ggctacgtgtggcaaaagctct	312172	-	see also 19735 line
44641	OPTN	NM_021980.3	1835	gacatagacacgttacagattca	312197	-	see also 8239 line
44642	OPTN	NM_021980.3	1785	agcggaattatccgattcaatcc	312194	-	see also 8239 line
44643	SMPX	NM_014332.1	389	atctatcgaataatccgaatatt	312206	-	see also 19737 line
44644	SMPX	NM_014332.1	223	atccagggcaaatatcaatattcc	312202	-	see also 19737 line
44645	TNNT2	NM_000364.1	624	ggccagacagagcggaaaagtgg	312208	-	see also 19738 line
44646	TNNT2	NM_000364.1	402	gaggaactggtttctctcaaaaga	312207	-	see also 19738 line
44647	DYSF	NM_003494.2	5516	accggacagaccgtgtaattgtt	312265	-	see also 2358 line
44648	DYSF	NM_003494.2	4051	ctgtacgaccatgacacttatgg	312246	-	see also 2358 line
44649	EMD	NM_000117.1	142	atcaactagttagcttaacagaga	312283	-	see also 19740 line
44650	EMD	NM_000117.1	119	atcccgacaggccctgtagtagg	312281	-	see also 19740 line

1197

図46 (続き)

44651	FER1L3	NM_013451.2	4357	accatgccggagacatcgttatcg	312394	-	see also 19741 line
44652	FER1L3	NM_013451.2	4356	caccatgccggagacatcgttatc	312393	-	see also 19741 line
44653	SGCA	NM_000023.1	583	gccgaagaaggggggtatcacatt	312449	-	see also 19742 line
44654	SGCA	NM_000023.1	572	tccattgagggccgaagaag	312447	-	see also 19742 line
44655	SLMAP	NM_007159.1	477	tgcagagggtacacatgatgatac	312463	-	see also 4962 line
44656	SLMAP	NM_007159.1	551	ttctttagtcccgagatgaat	312466	-	see also 4962 line
44657	SSPN	NM_005086.3	418	gagcaacggacatgtattcaatt	312492	-	see also 19744 line
44658	SSPN	NM_005086.3	374	tggcctattctggctgtttttatg	312489	-	see also 19744 line
44659	TRDN	NM_006073.1	1314	aggagattggtcgggttcaagt	312509	-	see also 4217 line
44660	FEZ1	NM_005103.3	327	atggagagacctcgttaaatgaatt	312521	-	see also 3578 line
44661	FEZ1	NM_005103.3	279	ctctccgagcttgagaaatttttc	312519	-	see also 3578 line
44662	SEMA3B	NM_004636.1	1552	agccgtcgagcgacacatgaag	312543	-	see also 19746 line
44663	SEMA3B	NM_004636.1	942	accagacgagcgacaaaattctac	312542	-	see also 19746 line
44664	F11R	NM_016946.3	466	atccagcctcacagttaacatcc	312549	-	see also 19747 line
44665	F11R	NM_016946.3	588	tgcctacgaatcccaaaagcacc	312552	-	see also 19747 line
44666	NEO1	NM_002499.1	3365	gaactagagatcgactacaaacc	312661	-	see also 1595 line
44667	NEO1	NM_002499.1	4493	aaggaactaaacgctatcacac	312681	-	see also 1595 line
44668	PECAM1	NM_000442.2	1392	tccagatagctgtatgaaatg	312709	-	see also 19749 line
44669	PECAM1	NM_000442.2	780	aggacacgagcgcgcttttatcc	312695	-	see also 19749 line
44670	PECAM1	NM_000442.2	1327	tggagacagtgaggagctatct	312706	-	see also 19749 line
44671	SEMA3E	NM_012431.1	2448	ttgtccatcagctcgctgaaatcc	312799	-	see also 5320 line
44672	SEMA3E	NM_012431.1	2451	tcacacgctcgtctaaatcacc	312800	-	see also 5320 line
44673	SEMA3E	NM_012431.1	558	ccgggttaagcgtgtcacataaa	312733	-	see also 5320 line
44674	TM4SF6	NM_003270.2	800	ctctctgtgcatacaataaa	312834	-	see also 2218 line
44675	TM4SF6	NM_003270.2	298	tgtactgtgtaccctcattatct	312813	-	see also 2218 line
44676	TPBG	NM_006670.3	1188	cgcgaacctgaacacatctagaaa	312845	-	see also 4714 line
44677	TPBG	NM_006670.3	1381	gaccggctcacctgtgcatacc	312847	-	see also 4714 line
44678	GAGEB1	NM_003785.2	138	atcgogtagaccatgatctat	312857	-	see also 19753 line
44679	GAGEB1	NM_003785.2	139	tggcgtagaccatgatctatg	312858	-	see also 19753 line
44680	LY6H	NM_002347.1	409	atctgatgggttttaactct	312863	-	see also 19754 line
44681	PTX3	NM_002852.2	164	ggcggagaaactcggatgattag	312866	-	see also 19755 line
44682	PTX3	NM_002852.2	165	gccgagaactcggatgattaga	312867	-	see also 19755 line
44683	CD1B	NM_001764.1	529	ttctgtcactaatatacaata	312906	-	see also 19756 line
44684	CD1B	NM_001764.1	139	cagacctgtctttaccaatag	312895	-	see also 19756 line
44685	CD1C	NM_001765.1	452	tagctttcaacggttagatttta	312926	-	see also 19757 line
44686	CD1C	NM_001765.1	961	tggattgctttagtagtagt	312938	-	see also 19757 line
44687	CD226	NM_006566.1	717	cccgtagacagcctcttaact	312959	-	see also 19758 line
44688	CD226	NM_006566.1	209	atggatattactactttactttt	312943	-	see also 19758 line
44689	CD226	NM_006566.1	288	ttccctttccgagaacatgtct	312946	-	see also 19758 line
44690	CD2BP2	NM_006110.1	559	ttggcccgacctcaatgagtc	312977	-	see also 19759 line
44691	CD2BP2	NM_006110.1	236	gocgtttaagggcaaacactct	312973	-	see also 19759 line
44692	CD53	NM_000560.2	483	accgttaacctcagacaatagc	312992	-	see also 19760 line
44693	CD53	NM_000560.2	482	caccgttaccactagacaatag	312991	-	see also 19760 line
44694	C1QA	NM_015991.1	471	cactgtaccgggtactactact	312998	-	see also 19761 line

1198

図46 (続き)

44695	C1QA	NM 015991.1	291	ccgtgcacatcccggaataaag	312996	-	see also 19761 line
44696	C1QB	NM 000491.2	116	tcctgggacctaatgatattcc	313004	-	see also 19762 line
44697	C1QB	NM 000491.2	643	gtggtaacctctgtgactatgc	313007	-	see also 19762 line
44698	C1QB	NM 172369.1	550	cacaaacccgaaggagattatg	313011	-	see also 19763 line
44699	C1QG	NM 172369.1	551	accaaacccgagggagattatga	313012	-	see also 19763 line
44700	C1QG	NM 172369.1	555	accgcaggagagattatgacacg	313013	-	see also 19763 line
44701	C4BPA	NM 000715.2	370	ctgcccgcgatattacattg	313020	-	see also 19764 line
44702	C4BPA	NM 000715.2	371	tgcccgcgatattacattgga	313021	-	see also 19764 line
44703	C4BPA	NM 000716.2	406	ttctgggacttacgtttgtatc	313061	-	see also 19765 line
44704	C4BPA	NM 000716.2	744	accttaggataccattagtta	313064	-	see also 19765 line
44705	DAF	NM 000574.2	515	ttgaagagttctgcaatctagc	313072	-	see also 19766 line
44706	DAF	NM 000574.2	1021	atgattggagagactctattta	313092	-	see also 19766 line
44707	FHR5	NM 030787.1	1520	accgttgccagctctctctataa	313119	-	see also 19767 line
44708	FHR5	NM 030787.1	1720	ttccacataaagcgatgatc	313121	-	see also 19767 line
44709	HF1	NM 000186.1	3678	aacgggagatctgctttcatca	313232	-	see also 19768 line
44710	HF1	NM 000186.1	1578	aaocccagtcattaaattctgt	313171	-	see also 19768 line
44711	PFC	NM 002621.1	257	agcgcaggccctcgattgttgc	313238	-	see also 19769 line
44712	PFC	NM 002621.1	1420	ccocctgtggacctaatctacc	313244	-	see also 19769 line
44713	HFL1	NM 002113.1	981	cgaggagatctgtttctacacg	313233	-	-
44714	CD24	NM 013230.1	112	ttctaccacagcagattattcc	313248	-	see also 19770 line
44715	CD24	NM 013230.1	111	ctctaccacagcagattattc	313247	-	see also 19770 line
44716	CD83	NM 004233.2	446	cacggtctctgggtcaagtatt	313251	-	see also 19771 line
44717	CD83	NM 004233.2	805	ttgcacgctacagagatcttcc	313260	-	see also 19771 line
44718	HGRG8	NM 016258.1	782	ttggttagcgggtccattactagt	313282	-	see also 19772 line
44719	HGRG8	NM 016258.1	786	tagcgggtccattactagttaaca	313283	-	see also 19772 line
44720	AIM2	NM 004833.1	912	agcgcctcagtggttagatgc	313321	-	see also 19773 line
44721	AIM2	NM 004833.1	328	ttcttcaagcagagtttaatt	313308	-	see also 19773 line
44722	AIM2	NM 004833.1	955	atgtccgcctgaacattatcaga	313323	-	see also 19773 line
44723	AZGP1	NM 001185.2	602	ccctggactctgggaataacc	313349	-	see also 19774 line
44724	AZGP1	NM 001185.2	387	cacgtattgcagggaaggtttgg	313345	-	see also 19774 line
44725	C1QBP	NM 001212.3	420	tgggacagaagcgaataatgtgc	313353	-	see also 794 line
44726	C1QBP	NM 001212.3	574	cccaatttcggttggaagtatt	313358	-	see also 794 line
44727	CD1A	NM 001763.1	826	ttcgtagatagcccatgaattg	313371	-	see also 19776 line
44728	CD1A	NM 001763.1	623	ctgagatcactcttttaacaacc	313368	-	see also 19776 line
44729	CD1A	NM 001763.1	1448	ggcgggtgagtggtcttacttc	313381	-	see also 19776 line
44730	CD59	NM 000611.3	277	ggggaaatgagctaacgtact	313386	-	see also 19777 line
44731	CD59	NM 000611.3	207	ctgggttaacagtgataacaag	313384	-	see also 19777 line
44732	CD96	NM 005816.3	941	gagtggtcttaacaaatctg	313406	-	see also 19778 line
44733	CD96	NM 005816.3	1506	gactaccggagcttcaactatc	313416	-	see also 19778 line
44734	CEACAM8	NM 001816.2	816	accatgcagggttaataatcaac	313435	-	see also 19779 line
44735	CEACAM8	NM 001816.2	726	accacggagtgcaacttcagt	313434	-	see also 19779 line
44736	CNIH	NM 005776.1	175	atctatagaccagtgtaatacc	313440	-	see also 19780 line
44737	CNIH	NM 005776.1	293	gcccctctggcatcatattt	313444	-	see also 19780 line
44738	CTLA4	NM 005214.2	307	gaggcatcgccagctttgtgt	313448	-	see also 19781 line

1199

図46 (続き)

44739	CTLA4	NM_005214.2	467	gggaactcctcagtggaatacaag	313450	-	see also 19781 line
44740	G1P3	NM_002038.2	118	aggcggatcctttcttctg	313456	-	see also 19782 line
44741	G1P3	NM_002038.2	417	agcagcgtcgtcataggaatat	313458	-	see also 19782 line
44742	ICOS	NM_012092.2	138	aacggaggtgtacaaattttatg	313465	-	see also 19783 line
44743	ICOS	NM_012092.2	221	ctgcgatctctactaagacaaag	313471	-	see also 19783 line
44744	KAAG1	NM_181337.2	944	tcttgaacacgaacggagaactga	313486	-	see also 19784 line
44745	NK4	NM_004221.3	517	gacagtggcggcttattatgagg	313492	-	see also 19785 line
44746	NK4	NM_004221.3	248	aagctgaaggcccggaatggtaat	313487	-	see also 19785 line
44747	RAET1E	NM_139165.1	212	aagcgcagctctcttgaataaa	313499	-	see also 19786 line
44748	RAET1E	NM_139165.1	140	tgttgggtggtcactctcttgc	313496	-	see also 19786 line
44749	RAET1L	NM_130900.1	10	ggcgcacatccagcttcttctct	313512	-	-
44750	SEMA7A	NM_003612.1	1023	gtgtattccctcggtagacatga	313528	-	see also 2426 line
44751	SEMA7A	NM_003612.1	335	atctgtgcgcacgggtgaatatcg	313515	-	see also 2426 line
44752	CAM1G	NM_001745.2	878	atcgatcaatggatacactatagc	313551	-	see also 19788 line
44753	CAM1G	NM_001745.2	445	tggactcgttcataaaccacc	313539	-	see also 19788 line
44754	CD84	NM_003874.1	302	tgccttaggtccgaactacaatc	313564	-	see also 2636 line
44755	CD84	NM_003874.1	303	gccttaggtccgaactacaatc	313565	-	see also 2636 line
44756	LY6E	NM_002346.1	364	atccagagaaggcgtaattgttg	313574	-	see also 19790 line
44757	NOD27	NM_032206.2	1107	ggcacgggtggagaataatgtga	313589	-	see also 19791 line
44758	NOD27	NM_032206.2	817	cgttcagagctcctttttgatct	313584	-	see also 19791 line
44759	NOD27	NM_032206.2	816	acgctcggagctcctttttgatc	313583	-	see also 19791 line
44760	TF2	NM_005423.2	389	ctgtggagaagctgccactactaa	313622	-	see also 19792 line
44761	TF3	NM_003226.1	171	ctggagtccttgggtttcaag	313623	-	see also 19793 line
44762	PSTPIP1	NM_003978.2	1207	ggcctaccagaactattacgac	313631	-	see also 19794 line
44763	PSTPIP1	NM_003978.2	1265	cagccgtctcgcggcatgataaa	313632	-	see also 19794 line
44764	LECT2	NM_002302.1	252	ggcagggccatgggctaataat	313635	-	see also 19795 line
44765	LECT2	NM_002302.1	460	atcaataatgtgttcgaataatc	313642	-	see also 19795 line
44766	LECT2	NM_002302.1	511	tacattaagccaataaagtataa	313644	-	see also 19795 line
44767	COCH	NM_004086.1	316	ggggacactgtacgagctctagc	313657	-	see also 2750 line
44768	DFNA5	NM_004403.1	709	ggcctaggtgtcattgagtata	313710	-	see also 19796 line
44769	DFNA5	NM_004403.1	707	ttgcctacgggtcattgagtta	313708	-	see also 19796 line
44770	DSPP	NM_014208.1	1004	taggtcaaaattcggatagataa	313741	-	see also 19797 line
44771	DSPP	NM_014208.1	1178	aacgcgtagaataatagatcacc	313747	-	see also 19797 line
44772	DSPP	NM_014208.1	886	gacagaggttgtatgatagata	313739	-	see also 19797 line
44773	ITM2B	NM_021999.2	674	agcctatttagatcttaacctgg	313765	-	see also 19798 line
44774	ITM2B	NM_021999.2	957	ttcgcaattcggcattttgaaaa	313775	-	see also 19798 line
44775	ITM2B	NM_021999.2	457	aaccagatgacgtactactgt	313763	-	see also 19798 line
44776	KCNE1L	NM_012282.2	308	aggcgacacgcgtactctctac	313778	-	see also 19799 line
44777	NOG	NM_005450.2	653	ggcctgcgcagcgagatcaaaagg	313781	-	see also 19800 line
44778	NOG	NM_005450.2	652	ggccatgcggagcgagatcaaaag	313780	-	see also 19800 line
44779	NOG	NM_005450.2	753	ggcgtgtgtcgcagacattctgc	313784	-	see also 19800 line
44780	OTOR	NM_020157.2	199	ccccggacttagatttaaac	313791	-	see also 19801 line
44781	OTOR	NM_020157.2	401	caccacagatagactctctct	313797	-	see also 19801 line
44782	OTOR	NM_020157.2	398	tcccaccagatagactctctct	313796	-	see also 19801 line

図46 (続き)

1200

44783	TBL1X	NM_0056647.2	1491	gcatgacgtcccgagtaacaaa	313801	-	see also 19802 line
44784	TBL1X	NM_0056647.2	654	agctcgtggcgctcttcacg	313798	-	see also 19802 line
44785	TMC1	NM_138691.2	1353	caggttgcgcgtctctctatttc	313819	-	see also 9628 line
44786	TMC1	NM_138691.2	2235	tctctacacacgaattagaca	313848	-	see also 9628 line
44787	USH3A	NM_052995.2	454	tcacgtgaattgctattcttc	313861	-	see also 9474 line
44788	USH3A	NM_052995.2	450	agcatcacgtcaatgtctatt	313860	-	see also 9474 line
44789	GCPHLP	NM_152401.1	566	cactaacatgacaattgttacc	313883	-	see also 19805 line
44790	GCPHLP	NM_152401.1	700	tagagacaatacagactattgg	313891	-	see also 19805 line
44791	UNC119	NM_005148.2	632	cacctgcggagcacatttaccgact	313897	-	see also 19806 line
44792	UNC119	NM_005148.2	739	accggctggtgtgcacacataa	313898	-	see also 19806 line
44793	UNC119	NM_005148.2	567	ttcggcaaccagctactcaaaag	313896	-	see also 19806 line
44794	ARR3	NM_004312.1	258	gaagtccgaaaagatctgtatg	313903	-	see also 19808 line
44795	ARR3	NM_004312.1	186	atgtcgaaagtgtgtgtcatgt	313902	-	see also 19808 line
44796	OPA3	NM_025136.1	117	agccgttgcccaaccgtattaaag	313916	-	see also 19809 line
44797	OPA3	NM_025136.1	118	gcagcttgcccaaccgtattaaag	313917	-	see also 19809 line
44798	PROL4	NM_007244.1	262	tcctcccccacctcttttcaaa	313922	-	-
44799	PROL4	NM_007244.1	70	cacagataatgatgtgaactatg	313921	-	see also 44798 line
44800	PROM1	NM_006017.1	1103	ctgtgtcccaacagggtctaatc	313954	-	see also 19810 line
44801	PROM1	NM_006017.1	1620	tgatataccctactactactaat	313972	-	see also 19810 line
44802	RS1	NM_000330.1	264	ctctaacccggagcagtagtgg	314016	-	see also 19811 line
44803	RS1	NM_000330.1	175	gccacctcttgagctactatacc	314013	-	see also 19811 line
44804	TULP1	NM_003322.2	1175	cagcgttgagtagacagactaatg	314031	-	see also 2254 line
44805	TULP1	NM_003322.2	1084	atctcatcgccctacacaaatct	314029	-	see also 2254 line
44806	TULP2	NM_003323.1	1378	tcgtactgagtggttaaccaag	314055	-	see also 19813 line
44807	TULP2	NM_003323.1	831	tggtcacggacagcgacccataga	314044	-	see also 19813 line
44808	ARRB2	NM_004313.3	645	ggcctgcgcgctgagacttgaga	314066	-	see also 2886 line
44809	ARRB2	NM_004313.3	862	ggggggccccctcaatgtataatgt	314074	-	see also 2886 line
44810	CLONE249	NM_015683.1	662	tgccccgactcctggtactgtacc	314083	-	see also 19815 line
44811	45	NM_015683.1	518	tagtgtccgctactgtatcaagg	314081	-	see also 19815 line
44812	KIAA1376	NM_020801.1	408	ggctcaatactgctctacaca	314089	-	see also 7975 line
44813	KIAA1376	NM_020801.1	1059	atccgctgggaataitcactaat	314111	-	see also 7975 line
44814	STIP1	NM_006819.1	279	aaggctattcaagaaagcagc	314128	-	see also 4787 line
44815	STIP1	NM_006819.1	1472	ctgtatgatggcgcagtaaac	314143	-	see also 4787 line
44816	SYN2	NM_003178.2	851	ccagctgtgtgctctatataag	314152	-	see also 2156 line
44817	SYN2	NM_003178.2	854	agctgtgctctctataagaca	314153	-	see also 2156 line
44818	CALCYON	NM_015722.2	470	ggcgtgacccctggagatgtact	314166	-	see also 19819 line
44819	CBLN1	NM_004352.1	714	aacgggtggcgggtgatttcagc	314173	-	see also 19821 line
44820	CBLN1	NM_004352.1	770	cgccagcaacagggtcctaacc	314174	-	see also 19821 line
44821	HAP1	NM_003949.2	315	cgccgtggaccgcgtctgtattc	314177	-	see also 19822 line
44822	HAP1	NM_003949.2	316	ggcgtggaccgcgtctgtattcc	314178	-	see also 19822 line
44823	HCRT	NM_001524.1	195	ggcccgactgctgtgtgtaaaaaa	314191	-	narcolepsy(ナルコレプシー)、porphyria(ポルフィリ)ン症、diabetes(糖尿病)

図46 (続き)

1202

44868	FLJ10324	NM_018059.2	1083	ggcgacatctcgtcaactct	314899	-	see also 19842 line
44869	FLJ10324	NM_018059.2	1816	ttccagcagtcgtctactatgt	314902	-	see also 19842 line
44870	FLJ10324	NM_018059.2	2178	ggcgagtcgagacactcttcc	314904	-	see also 19842 line
44871	NMB	NM_021077.2	303	cggaatctctcgtctaaagaag	314908	-	see also 19843 line
44872	PKD1L2	NM_032892.2	6979	atcgcgtcaaaccttgatttgg	314964	-	see also 19844 line
44873	PKD1L2	NM_032892.2	1203	ggcctcgtcaccgtacaatcga	314918	-	see also 19844 line
44874	RASSF1	NM_007182.4	1100	ctctattggccgcagagatcc	314978	-	see also 19845 line
44875	RASSF1	NM_007182.4	594	aacaaaggacgggtttcacacagg	314973	-	see also 19845 line
44876	RASSF1	NM_007182.4	1087	tcctgcagaagtaactctattgc	314977	-	see also 19845 line
44877	RASSF2	NM_014737.1	1112	accgtgctccggttaattgctg	314997	-	see also 5925 line
44878	RASSF2	NM_014737.1	1028	ttcgagatgcgggtacttaaaag	314995	-	see also 5925 line
44879	RASSF3	NM_178169.2	214	ccccgctccggcccaacaagatgt	315003	-	see also 19847 line
44880	RASSF3	NM_178169.2	436	agcaatggctgtatgaatacact	315013	-	see also 19847 line
44881	RASSF3	NM_178169.2	637	ccagacacacacacacttagttt	315016	-	see also 19847 line
44882	RASSF4	NM_032023.3	622	ggcgacacccggttctctatac	315019	-	see also 9061 line
44883	RASSF4	NM_032023.3	623	ggcgacacccggttctctatac	315020	-	see also 9061 line
44884	RASSF5	NM_031437.1	759	caactacacgggttcatcaaaag	315031	-	see also 9028 line
44885	RASSF6	NM_177532.2	441	gaagatctctatcgtattagta	315055	-	see also 19850 line
44886	RASSF6	NM_177532.2	323	gggaagtaaacgacctatacagc	315048	-	see also 19850 line
44887	HOMER2	NM_004839.1	361	atcgagacctcaagtaatacttc	315081	-	see also 19851 line
44888	HOMER2	NM_004839.1	151	gaaggagccaaagtgatcataaa	315076	-	see also 19851 line
44889	CD47	NM_001777.2	519	aacgatcatcgagctaaataatc	315102	-	see also 19852 line
44890	CD47	NM_001777.2	919	ctctgtatggcggtgtatacc	315119	-	see also 19852 line
44891	CD47	NM_001777.2	520	acgataatcgagctaaataatcg	315103	-	see also 19852 line
44892	SIRPB1	NM_006065.1	1098	aggagacagctcagatatacacc	315131	-	see also 19853 line
44893	SIRPB1	NM_006065.1	931	agcttcgacctcatagagaca	315130	-	see also 19853 line
44894	PARK7	NM_007262.3	568	ttcgagtttgcggttgcaattgt	315139	-	see also 19854 line
44895	PARK7	NM_007262.3	162	ggcgagcgtgggattaaagtc	315136	-	see also 19854 line
44896	EDARADD	NM_080738.2	546	tactagacgtgacagataaag	315155	-	see also 19855 line
44897	EDARADD	NM_080738.2	375	gcccacgaaattcagatatgaaa	315151	-	see also 19855 line
44898	ALP1	NM_012301.2	580	gtcactactcaactacgattt	315163	-	see also 19856 line
44899	ALP1	NM_012301.2	671	atgcaccacaaggccacataaag	315165	-	see also 19856 line
44900	ALP	NM_014476.1	398	caggacgggaactactttgaaca	315229	-	see also 19857 line
44901	ALP	NM_014476.1	326	caattatggtctccacaagtac	315228	-	see also 19857 line
44902	ARHGAP2	NM_020824.1	1002	agcggcaatgcccgcaataacc	315248	-	see also 19858 line
44903	ARHGAP2	NM_020824.1	1001	tagcggaatgcccgcaataacc	315247	-	see also 19858 line
44904	ASB10	NM_080871.2	576	ggagactctgggtctctgacatacg	315383	-	see also 19859 line
44905	ASB11	NM_080873.1	753	agctaactgtaagcgtagaatg	315397	-	see also 19860 line
44906	ASB11	NM_080873.1	936	gccagagccactcgaacgtacc	315401	-	see also 19860 line
44907	ASB11	NM_080873.1	226	ggcgcttactggcccttaaac	315388	-	see also 19860 line
44908	ASB13	NM_024701.2	721	ttcgagttactcgaagaacacc	315409	-	see also 19861 line
44909	ASB13	NM_024701.2	711	cgccaagtgtcgtgactacag	315408	-	see also 19861 line
44910	ASB14	NM_130387.4	653	atcaagttcagactctgttcaaaag	315429	-	see also 19862 line
44911	ASB14	NM_130387.4	777	atgcataggacgggttacatttgc	315437	-	see also 19862 line

図46 (続き)

1203

44912	ASB15	NM_080928.2	197	aagtctcaaaacagaaaacttg	315448	-	see also 9543 line
44913	ASB15	NM_080928.2	552	atggtgtcgtactgtatcaaaa	315453	-	see also 9543 line
44914	ASB17	NM_080868.1	699	ctctacccttcgagagtaagagt	315483	-	see also 19864 line
44915	ASB17	NM_080868.1	368	ctcagatataccgtttttgaagtaa	315466	-	see also 19864 line
44916	ASB17	NM_080868.1	697	tactctacccttcgagagtaaga	315482	-	see also 19864 line
44917	ASB2	NM_016150.3	1737	cgcgaaacatcgacccctatatcg	315507	-	see also 19865 line
44918	ASB2	NM_016150.3	657	gcctggcgagcccttgataaagg	315500	-	see also 19865 line
44919	ASB3	NM_016115.3	1571	tacggctcgaagcttatattagt	315560	-	see also 6671 line
44920	ASB3	NM_016115.3	1195	aagtacagaagtttctcgattt	315543	-	see also 6671 line
44921	ASB4	NM_016116.1	69	ggcgtaagtcacatgactctg	315569	-	see also 19867 line
44922	ASB4	NM_016116.1	738	tgcggagatgacgactttaaat	315585	-	see also 19867 line
44923	ASB5	NM_080874.2	420	atggcgtactcgtttattcaac	315605	-	see also 19868 line
44924	ASB5	NM_080874.2	36	atcgccgcttgcctcaacaatta	315597	-	see also 19868 line
44925	ASB6	NM_017873.2	1192	ggcggaaaacctcgatatccacc	315633	-	see also 19869 line
44926	ASB6	NM_017873.2	1188	agctggccgaaaaccttgatc	315632	-	see also 19869 line
44927	ASB8	NM_024095.2	110	ctctctccgagcgttaatoc	315638	-	see also 19870 line
44928	ASB8	NM_024095.2	123	cgttaatccgaacaattctg	315640	-	see also 19870 line
44929	ASB9	NM_024087.1	490	ctggcacactccactgtttaatg	315659	-	see also 19871 line
44930	ASB9	NM_024087.1	524	ggcagctggagttgtgtgaatt	315660	-	see also 19871 line
44931	C20orf163	NM_080749.2	871	cacggccgacatgcacatcatca	315667	-	see also 19872 line
44932	C20orf163	NM_080749.2	688	aacctctcgtgggaacctatc	315665	-	see also 19872 line
44933	CTEN	NM_032865.3	404	acctgactctactatgacttc	315674	-	see also 19873 line
44934	CTEN	NM_032865.3	557	aagccttgagacataaagtacatc	315676	-	see also 19873 line
44935	DCDC2	NM_016356.1	679	acgtgtcagctcgttttagaaa	315688	-	see also 6840 line
44936	DCDC2	NM_016356.1	1061	tggaaatgacgccactctaatg	315701	-	see also 6840 line
44937	EF5	NM_005864.2	1279	aagagcgtcagccttactcaat	315708	-	see also 19875 line
44938	EF5	NM_005864.2	1739	ggccgaggagatgactatgtoc	315712	-	see also 19875 line
44939	EF5	NM_005864.2	2048	tgtcatcgctgtgtgtttgtg	315715	-	see also 19875 line
44940	ENIGMA	NM_005451.2	617	aggagcacctggaagaatacaagc	315717	-	see also 19876 line
44941	ENIGMA	NM_005451.2	1347	ctgtgcgatgtcagatcaaac	315720	-	see also 19876 line
44942	ERBB2IP	NM_018695.1	3752	gagtgctgacccctctatattg	315826	-	see also 19877 line
44943	ERBB2IP	NM_018695.1	1689	cagcgggctcaagtgtcatttga	315767	-	see also 19877 line
44944	FLJ12428	NM_022783.1	462	ttctaccgctttagaagaagatga	315859	-	see also 8477 line
44945	FLJ12428	NM_022783.1	1276	accggaccgtgagcaactctgatt	315876	-	see also 8477 line
44946	FLJ12987	NM_025170.2	437	aacggcggaaagtttaaaatta	315892	-	see also 19879 line
44947	FLJ12987	NM_025170.2	901	ctgatagactgggttaattgcaca	315915	-	see also 19879 line
44948	FLJ14249	NM_022460.2	174	cccgctggcgttcgaatcg	315950	-	see also 19880 line
44949	FLJ14249	NM_022460.2	462	caggcgtccaccagcagagattcc	315956	-	see also 19880 line
44950	FLJ20967	NM_022071.2	744	tccggataaccagcagactaaag	315972	-	see also 19881 line
44951	FLJ20967	NM_022071.2	577	atggcggaacacacctagataa	315967	-	see also 19881 line
44952	FLJ21687	NM_024859.1	183	accgttggttagagacatgtaac	315992	-	see also 19882 line
44953	FLJ21687	NM_024859.1	177	tccagcacgttggttagagaca	315991	-	see also 19882 line
44954	FLJ21687	NM_024859.1	673	atccggagacgcctcaagaaga	315995	-	see also 19882 line
44955	FLJ23209	NM_024895.3	332	aacggatatacctctgaagaagc	315996	-	see also 19883 line

1204

図46 (続き)

44956	FLJ23209	NM_024895.3	838	ggcgatcgtccacccatacaca	315999	-	see also 19883 line
44957	FLJ23209	NM_024895.3	1693	gcggggcgctggccaaacttac	316002	-	see also 19883 line
44958	FLJ30934	NM_152760.1	492	tgcgatgcacgaagtcttctgc	316007	-	see also 19884 line
44959	FLJ30934	NM_152760.1	539	tgcgtcggagacacaaactttt	316008	-	see also 19884 line
44960	FLJ30934	NM_152760.1	414	ctctgtaactcgggaagatttg	316006	-	see also 19884 line
44961	FLJ32798	NM_173496.2	1429	accgtatcggcgacaaactaatg	316035	-	see also 19885 line
44962	FLJ32798	NM_173496.2	1428	caccgtatcggcgacaaactaat	316034	-	see also 19885 line
44963	FLJ33505	NM_152317.1	487	ggcaataaatacttctacattg	316054	-	see also 19886 line
44964	FLJ33505	NM_152317.1	322	aacacgtcctaagttagcaatga	316051	-	see also 19886 line
44965	FLJ38993	NM_152495.1	973	ggctgaatgctccctacttttc	316068	-	-
44966	FLJ38993	NM_152495.1	765	ttcgccatctggcacataattgc	316066	-	see also 44965 line
44967	FLJ38993	NM_152495.1	919	tccatagcctcttctgcattatg	316067	-	see also 44965 line
44968	GIPO2	NM_017655.3	418	ctcgcgcgtcggagatcttatatt	316070	-	see also 19887 line
44969	GIPO2	NM_017655.3	420	cgcgcgtcggagatcttatattgc	316072	-	see also 19887 line
44970	GIPO3	NM_133261.1	753	ggcatctcgggaagtgtgatgacc	316098	-	see also 19888 line
44971	GIPO3	NM_133261.1	724	ggaggaagcgcgcagtgagttaga	316097	-	see also 19888 line
44972	GOPC	NM_020399.1	918	aagggtgtgtccaaattagaana	316117	-	see also 7864 line
44973	GOPC	NM_020399.1	1283	aacctgtgtgtagtgtgcaaaa	316128	-	see also 7864 line
44974	GORASP2	NM_015530.3	583	atctattcagccttcttgaaaca	316145	-	see also 19890 line
44975	GORASP2	NM_015530.3	795	atgctgtgacacactattacacc	316151	-	see also 19890 line
44976	HS2	NM_032855.2	1202	acctgcgaactgaaactgtg	316166	-	see also 19891 line
44977	HS2	NM_032855.2	1177	agggtccggcgagcagctaaaaag	316165	-	see also 19891 line
44978	HSPC163	NM_014184.1	88	ctctcgtctacttaataat	316170	-	see also 19892 line
44979	HSPC163	NM_014184.1	85	ttctctcgtctacttaataat	316168	-	see also 19892 line
44980	HSPC163	NM_014184.1	86	ttctctcgtctacttaataat	316169	-	see also 19892 line
44981	KIAA0645	NM_014662.1	181	ttgcacaccccaacgatgaatc	316187	-	see also 5833 line
44982	KIAA1365	NM_020794.1	2960	ggcaagaacgacgggataagatg	316373	-	see also 19893 line
44983	KIAA1365	NM_020794.1	2701	ggcgtaccatgggagatcatga	316362	-	see also 19893 line
44984	KIAA1444	NM_032512.1	719	ctgcgtcgtgtaaaactgaaatc	316420	-	see also 19894 line
44985	KIAA1444	NM_032512.1	717	agctcgtcgtcgtgtaaaactgaa	316419	-	see also 19894 line
44986	LMO7	NM_005358.3	2177	ctgcgttacccttcaatcgtttt	316457	-	see also 19895 line
44987	LMO7	NM_005358.3	2178	tgcgttacccttcaatcgtttt	316458	-	see also 19895 line
44988	LNK	NM_005475.1	2006	ccgggactcgggactacgaatg	316527	-	see also 19896 line
44989	LNK	NM_005475.1	1076	tgcacccacccagagttcaagg	316519	-	see also 19896 line
44990	LNX	NM_032622.1	1833	taccacggtgctgtataactgt	316572	-	see also 9261 line
44991	LNX	NM_032622.1	1690	atcatcctcgtatgtactcacaag	316569	-	see also 9261 line
44992	LNX	NM_032622.1	1836	cacgggtgtgtataactgtaa	316573	-	see also 9261 line
44993	LOC11898	NM_173791.2	1618	ctcgtgcaatcgggttatgaag	316615	-	see also 19898 line
44994	LOC11898	NM_173791.2	1047	agcaacccctacccaattacaag	316593	-	see also 19898 line
44995	LOC51248	NM_016484.3	177	atggacacgcggattcttatga	316684	-	see also 6875 line
44996	LOC51248	NM_016484.3	274	accggactacacaactgattg	316689	-	see also 6875 line
44997	MAG11	NM_173515.1	1237	atgatggattacacgtgattact	316710	-	see also 19900 line
44998	MAG11	NM_173515.1	1947	ggcgggattctccgatcatga	316723	-	see also 19900 line
44999	MGC2793	NM_145064.1	437	ctcctaagctgggtcaacgataag	316732	-	see also 9773 line

図46 (続き)

1205

45000	MG32065	NM_153271.1	1704	gcgcgtgagctcgacttcaagc	316752	-	see also 19902 line
45001	MG32065	NM_153271.1	108	agcccgagccctctactcttc	316746	-	see also 19902 line
45002	MG39715	NM_152628.2	291	agctaagcgggtcttggaaat	316754	-	see also 19903 line
45003	MG39715	NM_152628.2	747	ttggactcggaaagtgtatag	316768	-	see also 19903 line
45004	MPP4	NM_033066.1	1585	gccacactactcgtactaaaa	316823	-	see also 19905 line
45005	MPP4	NM_033066.1	485	gagtagtgaggttactacgtga	316799	-	see also 19905 line
45006	MPP5	NM_022474.2	1298	gtcatattagccggatgataa	316859	-	see also 8392 line
45007	MPP5	NM_022474.2	1301	atcattagccggatagtaaaag	316860	-	see also 8392 line
45008	NCK1	NM_006153.3	647	agcagctgcaataacctaata	316910	-	see also 4255 line
45009	NOXO1	NM_144603.2	776	cacgcggatagccctttcagg	316934	-	see also 19908 line
45010	NOXO1	NM_144603.2	1027	cgccgctgagcgtgttggaacg	316935	-	see also 19908 line
45011	NOXO1	NM_144603.2	269	ccccgataccagtttcagtc	316931	-	see also 19908 line
45012	PDLM2	NM_021630.4	714	agggctccgtggagacatacat	316937	-	see also 19909 line
45013	PDLM2	NM_021630.4	716	ggctcgtgagacatacaactga	316938	-	see also 19909 line
45014	PDZK2	NM_024791.2	40	gcctgttaactctgaagttaa	316943	-	see also 19910 line
45015	PDZK2	NM_024791.2	31	caggacacacccctgaactct	316941	-	see also 19910 line
45016	PDZRN1	NM_153371.2	1931	gccagatatgttttaacaga	317003	-	see also 19911 line
45017	PDZRN1	NM_153371.2	1930	tgcacagatatgttttaacag	317002	-	see also 19911 line
45018	PDZRN1	NM_153371.2	1465	cacacacacacccogtattatag	316991	-	see also 19911 line
45019	PSDBP	NM_004288.2	492	gtcggaaacctgtaacgatag	317022	-	see also 2873 line
45020	PSDBP	NM_004288.2	493	tcgggaaacctgtaacgataga	317023	-	see also 2873 line
45021	RACGAP1	NM_013277.2	2080	taggaagacagagcaacttttt	317038	-	see also 19913 line
45022	RACGAP1	NM_013277.2	649	gactatcaacctatgatgatct	317036	-	see also 19913 line
45023	RHPN1	NM_052924.1	639	ggcagcgttctctcaacatcg	317042	-	see also 19914 line
45024	RHPN1	NM_052924.1	638	aggcagcgttctctcaacatc	317041	-	see also 19914 line
45025	RHPN2	NM_033103.3	324	ctcgggtggcgtctatcagaaca	317048	-	see also 19915 line
45026	RHPN2	NM_033103.3	413	cagtcgtctcaaggtattatc	317051	-	see also 19915 line
45027	RHPN2	NM_033103.3	195	gaggacggagcggaacacctic	317046	-	see also 19915 line
45028	RIL	NM_003687.2	862	accatcccggtgctctatgctc	317061	-	see also 19915 line
45029	RIL	NM_003687.2	465	cgcttcacgtccctcacatgg	317060	-	see also 45028 line
45030	RIMS2	NM_014677.1	660	cagtcacgtaccgaagtgtcc	317068	-	see also 5872 line
45031	RIMS2	NM_014677.1	2723	ccgcactatgaccggacattata	317119	-	see also 5872 line
45032	RP1L1	NM_178857.4	2325	ggctcagtgccacgatattctgg	317161	-	see also 19917 line
45033	RP1L1	NM_178857.4	682	cccgagagatactgctgtataag	317151	-	see also 19917 line
45034	SCRIB	NM_015356.1	2265	ggggagcgagcgagggcatattca	317186	-	see also 19918 line
45035	SCRIB	NM_015356.1	808	cagctatccatcttaaggtaga	317183	-	see also 19918 line
45036	SDCBP2	NM_015685.3	617	agtgagacggagcagaattgttc	317191	-	see also 19919 line
45037	SDCBP2	NM_015685.3	521	acgtcggcttgatcaagaag	317190	-	see also 19919 line
45038	SDP35	NM_017779.2	768	actggagtagttactactcaaa	317208	-	see also 19920 line
45039	SDP35	NM_017779.2	770	gtggagtagttactactcaaac	317209	-	see also 19920 line
45040	SH2B	NM_015503.1	3148	aagttccatccaggtatattatg	317229	-	see also 6441 line
45041	SH2D2A	NM_003975.2	697	aggacaggaatacaactttgg	317234	-	see also 19922 line
45042	SH2D2A	NM_003975.2	741	ccccagacagcccaatca	317235	-	see also 19922 line
45043	SHANK1	NM_016148.1	2629	aagttacagcgtcctcttctcc	317255	-	see also 19923 line

1206

図46 (続き)

45044	SHANK1	NM_016148.1	4423	ccgcacccccggagtaagcaagc	317260	-	see also 19923 line
45045	SHD	NM_020209.1	418	aacccccggagatgccaagtattgg	317269	-	see also 19924 line
45046	SHD	NM_020209.1	641	gaggggtgcaagctctatgacacc	317272	-	see also 19924 line
45047	ShrnL	NM_020859.1	1374	gtggctcagagggttaaaccttc	317285	-	see also 19925 line
45048	ShrnL	NM_020859.1	5561	aggaaaccccggtgtatagatg	317304	-	see also 19925 line
45049	SLA2	NM_032214.2	953	ccagctccctgccaaggatatatc	317324	-	see also 19926 line
45050	SLA2	NM_032214.2	952	gcccgctccctggccaaggatatata	317323	-	see also 19926 line
45051	SLA2	NM_032214.2	873	gccctgtgtggaccattactctga	317322	-	see also 19926 line
45052	SSB1	NM_025106.2	468	gaccgatcctcaatgtctttgt	317326	-	see also 19927 line
45053	SSB1	NM_025106.2	419	gcccctgtctctatgatgtoc	317325	-	see also 19927 line
45054	SSB3	NM_080861.3	174	ctctagcaggctccactaactgg	317336	-	see also 19928 line
45055	SSB3	NM_080861.3	771	ggcacggcacactcacccttttc	317342	-	see also 19928 line
45056	SSB4	NM_080862.1	579	cggcgccaccacgctgtagtgg	317345	-	-
45057	SSB4	NM_080862.1	1039	tgccctagctctctoaanaactat	317346	-	see also 45056 line
45058	STAC	NM_003149.1	1219	atcccccttgatgtactagaaaa	317372	-	see also 19929 line
45059	STAC	NM_003149.1	772	ggcgggtatgacctaaaggaaacg	317360	-	see also 19929 line
45060	STMN4	NM_030795.2	185	tggccgatccctgaataagtgc	317377	-	see also 19930 line
45061	STMN4	NM_030795.2	372	ctcgggccaatcctttgaagtca	317384	-	see also 19930 line
45062	SYNJ2BP	NM_018373.1	322	tgcttagacctcttctgtaag	317390	-	see also 19931 line
45063	SYNJ2BP	NM_018373.1	83	atgaacgggaaggaggattttt	317386	-	see also 19931 line
45064	TENC1	NM_015319.2	1539	ctcgctctctgtgactacaaca	317413	-	see also 19932 line
45065	TENC1	NM_015319.2	893	cacagcacgtgtgctactatcac	317400	-	see also 19932 line
45066	TENC1	NM_015319.2	896	agcacgtgtgtactactatgc	317401	-	see also 19932 line
45067	TJP2	NM_004817.1	3208	taccttggcggtgctactactga	317480	-	see also 3347 line
45068	TJP2	NM_004817.1	1078	cggaaagggtctgccaactaaag	317433	-	see also 3347 line
45069	WSB2	NM_018639.3	609	tccggtcacgggataagaactct	317490	-	see also 19934 line
45070	WSB2	NM_018639.3	863	cacggcttcttaacgataccaatg	317496	-	see also 19934 line
45071	XTP1	NM_018369.1	505	aagcgtcacagtattgcaattgg	317519	-	see also 7423 line
45072	XTP1	NM_018369.1	498	gtggtacaaagcgtcacagtattg	317516	-	see also 7423 line
45073	CHL1	NM_006614.2	2762	atcatgggggtggacgctataaa	317648	-	see also 4676 line
45074	CHL1	NM_006614.2	3444	aacatagtttcgcctaagact	317672	-	see also 4676 line
45075	CHL1	NM_006614.2	3766	gtcccttaataaggagatagcagc	317685	-	see also 4676 line
45076	FLJ38991	NM_173827.1	882	aacgtaccctctcaaatgttc	317718	-	see also 19937 line
45077	FLJ38991	NM_173827.1	883	aaggtaccctcaaatgttct	317719	-	see also 19937 line
45078	HAN11	NM_005828.1	532	caggttggtagagtgagtaot	317742	-	see also 19938 line
45079	HAN11	NM_005828.1	336	ggcaacaagcgggtactatctcc	317734	-	see also 19938 line
45080	INPP4A	NM_001566.1	773	gtgacccgtgtaggtaacatcac	317766	-	see also 1065 line
45081	INPP4A	NM_001566.1	2463	aggaaatcgcgacgggtttaacg	317786	-	see also 1065 line
45082	LRDD	NM_018494.2	968	gacacgtacctctcagagattgg	317807	-	see also 19940 line
45083	LRDD	NM_018494.2	2303	ttcgaggcggaaggagtttttgc	317812	-	see also 19940 line
45084	RSU1	NM_012425.3	823	agcttggcgtgtcccatgttttt	317825	-	see also 19941 line
45085	RSU1	NM_012425.3	908	accacgaagaagaataatgaca	317828	-	see also 19941 line
45086	RSU1	NM_012425.3	910	caccgaagaagaataatgacaaa	317829	-	see also 19941 line
45087	SH3GL2	NM_003026.1	535	gtcgacgcctggattttgattat	317836	-	see also 19942 line

図46 (続き)

1207

45088	SH3GL2	NM_003026.1	536	tcgagccctggattttgattata	317837	-	see also 19942 line
45089	SH3GL3	NM_003027.2	1030	aagaaacgagtagtgtaagatacc	317862	-	see also 2029 line
45090	SH3GL3	NM_003027.2	594	aactaaactagacgatgaatttc	317850	-	see also 2029 line
45091	UNC5GL	NM_173561.1	359	gacatggtcgcacagtgatgc	317873	-	see also 19944 line
45092	UNC5GL	NM_173561.1	1207	atggcttgagagacaaagtatag	317882	-	see also 19944 line
45093	NCAM2	NM_004540.2	727	gacaatcgtgttcgctatgttagc	317907	-	see also 3097 line
45094	NCAM2	NM_004540.2	1294	agcctggagcggcgtatcgaagt	317916	-	see also 3097 line
45095	NCAM2	NM_004540.2	474	gtcacgggtaaccatctacaatg	317899	-	see also 3097 line
45096	NINJ2	NM_016533.4	595	tacagcccttcggggcacataaaa	317972	-	see also 19946 line
45097	NINJ2	NM_016533.4	599	gccttcggggcacataaaacagg	317974	-	see also 19946 line
45098	EVA1	NM_005797.2	396	accatgagtgaggcgggttaagg	317977	-	see also 19947 line
45099	EVA1	NM_005797.2	259	ggagacagatgctcgggttaaaatg	317976	-	see also 19947 line
45100	ICAM5	NM_003259.2	810	tgcactctggacgactgtttcc	317984	-	see also 2209 line
45101	ICAM5	NM_003259.2	2059	caccggagatgagatgaatctacc	317990	-	see also 2209 line
45102	ICAM5	NM_003259.2	1262	cgagagcttgctcctatacag	317985	-	see also 2209 line
45103	JAM2	NM_021219.2	1263	atcatagcagccgtagtagtgt	318007	-	see also 19948 line
45104	JAM2	NM_021219.2	1190	agcccgcaattctgttgatatac	318004	-	see also 19948 line
45105	VGAM1	NM_001078.2	512	agccgacacacagtcagggttca	318020	-	see also 672 line
45106	ZAN	NM_003386.1	7344	caccgtctacggctataaagtgc	318137	-	see also 19950 line
45107	ZAN	NM_003386.1	3299	ctcnaaatcccgctacagaatcc	318094	-	see also 19950 line
45108	ZAN	NM_003386.1	7342	accacgctcagcgctataaagt	318136	-	see also 19950 line
45109	ODA08	NM_030790.2	1187	aagaggcgcgtcgaatgtttaa	318166	-	see also 19951 line
45110	ODA08	NM_030790.2	1191	ggcgctcgaatgtttaaagtct	318168	-	see also 19951 line
45111	ODA08	NM_030790.2	1600	ggacatctctacgttggtattcc	318192	-	see also 19951 line
45112	COL17A1	NM_000494.2	3555	agctgagtagtcgcattctcagc	318238	-	see also 19952 line
45113	COL17A1	NM_000494.2	1370	ggcctaaaggccgagcgaatagg	318225	-	see also 19952 line
45114	COL17A1	NM_000494.2	3770	ctctgttcttactacatactgc	318243	-	see also 19952 line
45115	DKFZP761	NM_032039.1	425	tgcgcgtgttctatctacttctc	318256	-	see also 19953 line
45116	D0211	NM_032039.1	422	cagtgcgcgtgttctatctact	318254	-	see also 19953 line
45117	MDS028	NM_018463.2	670	ggcaaggttgctgctatgcaattc	318275	-	see also 19954 line
45118	MDS028	NM_018463.2	1223	ggcggagatggagtgatccaatct	318287	-	see also 19954 line
45119	PPFIA2	NM_003625.2	2538	cacaatgatcctcgaagtatttt	318335	-	see also 2432 line
45120	PPFIA2	NM_003625.2	950	aaccgatgaactagtcaaatag	318304	-	see also 2432 line
45121	SGCE	NM_003919.1	1002	gactattacacggatttctaat	318388	-	see also 2678 line
45122	HNT	NM_016522.2	1291	ggccgtggttacggagagtaaaag	318404	-	see also 19957 line
45123	HNT	NM_016522.2	1290	cgccgtggttacggagagtaaaag	318403	-	see also 19957 line
45124	HNT	NM_016522.2	825	cctcaggtgcactatttgacaac	318396	-	see also 19957 line
45125	CASPR3	NM_033655.1	1855	ttgattcaggtgacacattattat	318412	-	see also 19958 line
45126	ADRM1	NM_007002.2	233	ggcggagactcgtcttattcact	318415	-	see also 19959 line
45127	ADRM1	NM_007002.2	1040	ggccagacacggagatgagatcc	318423	-	see also 19959 line
45128	C1orf38	NM_004848.1	392	ctccggcagcgtccactttatca	318425	-	see also 19960 line
45129	C1orf38	NM_004848.1	516	tgggtggcgtccttgcaaaaagg	318429	-	see also 19960 line

図46 (続き)

1208

45130	CASPR4	NM_033401.2	2052	agcacaacggctctgacttaaca	318481	-	see also 9420 line
45131	CASPR4	NM_033401.2	1890	gagagactacttgcataactct	318475	-	see also 9420 line
45132	caspr5	NM_130773.2	2432	acgccgatggagacacacatttac	318598	-	see also 19962 line
45133	caspr5	NM_130773.2	1836	gagggtgccccgacacactcacc	318580	-	see also 19962 line
45134	CD151	NM_004357.3	248	ccctcaagtgactacatcacgc	318646	-	see also 2919 line
45135	CD151	NM_004357.3	172	tacctctgtttacctacaattg	318645	-	see also 2919 line
45136	CD151	NM_004357.3	133	aacgagagaaggaacacatgtgg	318644	-	see also 2919 line
45137	CD34	NM_001773.1	559	cccaactaaacccatatacatc	318658	-	see also 19963 line
45138	CD34	NM_001773.1	174	tgggtcatagcttctgacaaca	318650	-	see also 19963 line
45139	CD99	NM_002414.3	237	cccgatgtgtgttgatttat	318664	-	see also 19964 line
45140	CD99	NM_002414.3	236	cccggtatgtgttttgtattta	318663	-	see also 19964 line
45141	CD99	NM_002414.3	430	tcctccggtagcttttcagatgc	318670	-	see also 19964 line
45142	CDON	NM_016952.1	773	cggcggactccggaaactattcc	318695	-	see also 19965 line
45143	CDON	NM_016952.1	1220	tgcgggtccgactcctgttgg	318708	-	see also 19965 line
45144	ONTN2	NM_005076.2	1814	ctcaagtcggcacatacaattgg	318771	-	see also 19966 line
45145	ONTN2	NM_005076.2	1939	gagggcactaccggggaactaat	318772	-	see also 19966 line
45146	DCBLD1	NM_173674.1	604	aacgagctagccatttattgaag	318810	-	see also 10108 line
45147	DCBLD1	NM_173674.1	789	cgcgaaggagtagctgataga	318818	-	see also 10108 line
45148	DCBLD1	NM_173674.1	600	tggacacgtagccattatttt	318808	-	see also 10108 line
45149	DSCAM	NM_001389.2	5586	ctcacaggtccattaccatcgc	318968	-	see also 955 line
45150	DSCAM	NM_001389.2	4448	aacgggacacccagctagtaac	318941	-	see also 955 line
45151	EFNB1	NM_004429.3	937	tgggtatctatccgaaaattgg	318983	-	see also 19970 line
45152	EFNB1	NM_004429.3	1076	acgtgttgctacactgcattagg	318984	-	see also 19970 line
45153	ESDN	NM_080927.2	1811	aaggtctgtcccccataatttacc	319031	-	see also 9542 line
45154	ESDN	NM_080927.2	1270	atgcggatctcctaataacacgc	319015	-	see also 1062 line
45155	IGSF1	NM_001555.1	2453	tgtgtcccgagtgactttaatt	319107	-	see also 1062 line
45156	IGSF1	NM_001555.1	1538	tcgcgtagagacacatcctaaca	319092	-	see also 19973 line
45157	L1CAM	NM_000425.2	982	ccggcatcgctactatgtacc	319150	-	see also 19973 line
45158	L1CAM	NM_000425.2	3512	ggcccgaccgatgaagatgaga	319170	-	see also 1513 line
45159	LSAMP	NM_002338.1	755	acgggatgacacttaggataaat	319195	-	see also 1975 line
45160	MCAM	NM_006500.1	1425	aacggcacggcagtgacaaga	319210	-	see also 1975 line
45161	MCAM	NM_006500.1	1852	tagttgaagttaagtcagataag	319216	-	see also 1975 line
45162	MFG8	NM_005928.1	164	gtgtttatcgagagagatttgc	319218	-	see also 19976 line
45163	MFG8	NM_005928.1	555	tggacaocgaattcgatttcacc	319222	-	see also 19976 line
45164	NIN1	NM_004148.2	284	cccgagcttcgcttctatgtgc	319230	-	see also 19977 line
45165	NRXN1	NM_004801.2	3587	gtggacaatacagctataagtg	319317	-	see also 3336 line
45166	NRXN1	NM_004801.2	3585	tgttgacaatacagctataagtg	319316	-	see also 3336 line
45167	NRXN2	NM_015080.2	4079	gacggaccaacccatagtagg	319370	-	see also 19979 line
45168	NRXN2	NM_015080.2	4960	cacggacggcagagacttttaca	319385	-	see also 19979 line
45169	OMD	NM_005014.1	1131	aaccaataagctcatatcttc	319419	-	see also 3510 line
45170	OMD	NM_005014.1	1198	aagcactaatgttcaacaatac	319421	-	see also 3510 line
45171	OMG	NM_002544.2	2340	caccatgaccctaaagtatcaact	319470	-	see also 1639 line
45172	OMG	NM_002544.2	2342	cccatgaccctaaagtatcaact	319471	-	see also 1639 line
45173	PUNC	NM_004884.1	1598	ccaccggagctggagatcacgg	319479	-	see also 19982 line

1209

図46 (続き)

45174	PUNC	NM_004884.1	2196	agggtcctctgtgtaaatgt	319482	-	see also 19982 line
45175	SRPX	NM_006307.2	916	aggagcgggataattatggagc	319510	-	see also 19983 line
45176	SRPX	NM_006307.2	910	tgtccagcggagcgggataatta	319507	-	see also 19983 line
45177	SRPX	NM_006307.2	912	ctccagcggcgggataattatg	319508	-	see also 19983 line
45178	TROAP	NM_005480.2	2248	agcgcctcaaatcgtgttaacc	319534	-	see also 19984 line
45179	TROAP	NM_005480.2	1151	gggtcaccggttaacctaaaa	319524	-	see also 19984 line
45180	DAP4	NM_014902.2	2093	ggctagtgagcgtataagaagacc	319544	-	see also 19985 line
45181	DAP4	NM_014902.2	2964	gggcagtgccagcactactgtgt	319550	-	see also 19985 line
45182	EFNA5	NM_001962.1	798	tgggttttgcgtgtaaacgaca	319570	-	see also 1241 line
45183	EFNA5	NM_001962.1	883	ggcgagaaagcggcacaaacacc	319573	-	see also 1241 line
45184	EFNB2	NM_004093.2	97	ttccaaatcggatagtttttaggc	319582	-	see also 2762 line
45185	IFRD1	NM_001550.1	1293	tgtctgaagcgcgtatattg	319625	-	see also 1057 line
45186	IFRD1	NM_001550.1	750	ttgtgagggcagctagtatgc	319614	-	see also 1057 line
45187	SPAG6	NM_012443.2	252	tgcgaagcgggggtgtatgtct	319636	-	see also 19989 line
45188	SPAG6	NM_012443.2	702	ctgttcggccctcagtgatatt	319650	-	see also 19989 line
45189	MLF1	NM_022443.2	588	atgacgcagcctcatgtcattaa	319686	-	see also 19990 line
45190	MLF1	NM_022443.2	162	ttcttcacacccggagaaatag	319676	-	see also 19990 line
45191	CRISP1	NM_001131.2	576	caoctgatattctacgtttgt	319718	-	see also 19991 line
45192	CRISP1	NM_001131.2	585	atctctacgtttgtcactattg	319720	-	see also 19991 line
45193	CRISP1	NM_001131.2	434	tgtacacgtgagtcacagttt	319712	-	see also 19991 line
45194	NP25	NM_013259.1	549	ttcgccagggagacagacgaata	319736	-	see also 19992 line
45195	NP25	NM_013259.1	551	cgccagggagacagacgaataag	319737	-	see also 19992 line
45196	PCP4	NM_006198.1	98	gacaaagacatctgtgaaatga	319739	-	-
45197	PCP4	NM_006198.1	199	gtctagttcagaaatctccaga	319740	-	see also 45196 line
45198	PNMA1	NM_006029.3	1263	ggcgtgtgagtgagagagctttaga	319757	-	see also 19993 line
45199	PNMA1	NM_006029.3	807	acggaatgcttgaggagaatttc	319742	-	see also 19993 line
45200	RNF103	NM_005667.2	1241	aagcatccgaatcggtttctagt	319769	-	see also 3932 line
45201	RNF103	NM_005667.2	1475	tcgcatcacactcattatgtct	319776	-	see also 3932 line
45202	C4orf6	NM_005750.1	306	gacactatggacggaaatccagg	319841	-	-
45203	C4orf6	NM_005750.1	263	aaggaaaggacacgcgcaaaattt	319837	-	see also 45202 line
45204	C4orf6	NM_005750.1	264	aggaaaggacacgcgcaaaattt	319838	-	see also 45202 line
45205	CLN8	NM_018941.2	948	ggctgtgttaagcgtataatta	319855	-	see also 19994 line
45206	CLN8	NM_018941.2	957	tacgctaataatcattccatt	319858	-	see also 19994 line
45207	DAB1	NM_021080.3	793	tcggtaacaagcgaatgato	319882	-	see also 8080 line
45208	DAB1	NM_021080.3	810	ttgatcgggagtgagaagtttc	319865	-	see also 8080 line
45209	FCMD	NM_006731.1	952	ctgcacactagcaggaacacatt	319918	-	see also 4750 line
45210	FCMD	NM_006731.1	618	tgcgacacttggtagtcttc	319904	-	see also 4750 line
45211	FCMD	NM_006731.1	667	caaggcacttgagacttaaga	319908	-	see also 4750 line
45212	MAB21L2	NM_006439.3	1370	agcgtatgtgtgcaaatcaat	319943	-	see also 4504 line
45213	MAB21L2	NM_006439.3	1673	cggccagccgcgtcaacaactac	319944	-	see also 4504 line
45214	MOBP	NM_006501.1	130	atcggaataacagcatctgtaag	319949	-	see also 19998 line
45215	MOBP	NM_006501.1	91	cgccgttaocttctoaaattcc	319948	-	see also 19998 line
45216	NEURL	NM_004210.3	165	acccccagacacctcaagactct	319951	-	see also 19998 line
45217	NUMBL	NM_004756.2	616	tgtctgacacacccatgaaag	319956	-	see also 20000 line

図46 (続き)

1210

45218	NUMBL	NM_004756.2	583	tccgagtggtggacacaaaacc	31954	-	see also 20000 line
45219	SORG1	NM_007281.1	548	agctgacctgacacagattgatg	31980	-	-
45220	SORG1	NM_007281.1	484	atggctctcttctacagaag	31979	-	see also 45219 line
45221	SEMA3A	NM_006080.1	1463	ttcgggaacccgactgtattca	32021	-	see also 4222 line
45222	SEMA3A	NM_006080.1	1550	tcccttacaccggtgtgatatt	32026	-	see also 4222 line
45223	SEMA6B	NM_020241.2	681	acctggcaccggtgaacaatga	320053	-	see also 20002 line
45224	SEMA6B	NM_020241.2	1202	caggccttgccggatgacatcc	320059	-	see also 20002 line
45225	SEMA6C	NM_030913.2	954	cgcgtagcccgagatgtataacg	320079	-	see also 20003 line
45226	SEMA6C	NM_030913.2	952	cccgctagcccgagatgtataaa	320077	-	see also 20003 line
45227	EVO	NM_014556.2	1100	tacttgacacgctaactcgataa	320087	-	see also 20004 line
45228	EVC	NM_014556.2	1109	cagctaatacgataatattgaagc	320090	-	see also 20004 line
45229	CSRP3	NM_003476.1	195	ggctcatgagtcggagatctact	320111	-	see also 20005 line
45230	CSRP3	NM_003476.1	197	ctcatgagtcggagatctactgc	320112	-	see also 20005 line
45231	VAMP5	NM_006634.2	131	gaaggaaattatcgtaacaact	320118	-	see also 20006 line
45232	CAV3	NM_001234.3	370	ggcgggtggtgccatgcaataaga	320125	-	see also 20007 line
45233	CAV3	NM_001234.3	144	accgagaccaccaagaacattaac	320123	-	see also 20007 line
45234	CAV3	NM_001234.3	143	aaccgagaccccccaagaacattaa	320122	-	see also 20007 line
45235	FHL3	NM_004468.1	77	ccctgtatggagcgcgaagtacatc	320126	-	-
45236	FHL3	NM_004468.1	373	tcccggaagctggaaatattggagg	320128	-	see also 45235 line
45237	FHL3	NM_004468.1	187	gactcgaggagactgtctctatga	320127	-	see also 45235 line
45238	SGB	NM_000232.2	300	accaaatggctgtgatgtatgg	320138	-	see also 171 line
45239	SGB	NM_000232.2	341	tgcctcgatttaagcaagtattct	320141	-	see also 171 line
45240	SGB	NM_000232.2	336	tggcctgttcgtattgaagaag	320140	-	see also 171 line
45241	SGCD	NM_000337.3	612	atcagtcocgcaccaggaatgco	320165	-	see also 20009 line
45242	SGCD	NM_000337.3	716	tccaaagccgctagaagcttatg	320169	-	see also 20009 line
45243	SGCD	NM_000337.3	723	gccgtagaagcttatgtataaaa	320171	-	see also 20009 line
45244	SGCG	NM_000231.1	712	cccactcggagtcctaagcatgg	320207	-	see also 20010 line
45245	SGCG	NM_000231.1	684	accggttcaagacccttagatta	320203	-	see also 20010 line
45246	SGCG	NM_000231.1	260	atcctcgtgtggaattagctct	320188	-	see also 20010 line
45247	KRTHA2	NM_002278.2	792	agcttggggaccgcgcttaacatc	320217	-	see also 20011 line
45248	KRTHA2	NM_002278.2	929	cagatggaggagcttaaccaaca	320219	-	see also 20011 line
45249	SEEL	NM_003843.2	2082	ctgtgaacctgtctactctaaa	320263	-	see also 20012 line
45250	SEEL	NM_003843.2	2036	atctacaagcgggtgatagatt	320262	-	see also 20012 line
45251	TNFAIP2	NM_006291.2	1978	tggccatcaagggaacatctcc	320271	-	see also 20013 line
45252	TNFAIP2	NM_006291.2	1377	acgaattacaggcccaatgttat	320268	-	see also 20013 line
45253	ANKRD7	NM_019644.1	411	cactattatgtccgtattaac	320278	-	see also 20014 line
45254	ANKRD7	NM_019644.1	285	atctgagggatattcttataat	320274	-	see also 20014 line
45255	MEA	NM_014623.1	68	ggccggatggcaacagtagttct	320283	-	see also 20015 line
45256	MEA	NM_014623.1	71	cggatggcaacagtagttctagg	320285	-	see also 20015 line
45257	CCNI	NM_006835.2	1156	ggccatgtgtgtgtggaatgg	320306	-	see also 20016 line
45258	CCNI	NM_006835.2	699	tggccaaactcaagtacaaatc	320292	-	see also 20016 line
45259	FSHPRH1	NM_006733.1	1912	tgcgctggaggagcaacaatact	320342	-	see also 4753 line
45260	FSHPRH1	NM_006733.1	317	ttcaacaagtagtagttttc	320312	-	see also 4753 line
45261	SPAG9	NM_003971.3	2331	ttcggctacaaaagttcttatta	320435	-	see also 2714 line

1211

図46 (続き)

45262	SPAG9	NM_003971.3	1058	ttcaagcaatcatcgaatctact	320396	-	see also 2714 line
45263	SPAG9	NM_003971.3	2322	cagcaactcatcggctcaaaaag	320432	-	see also 2714 line
45264	D8S2298E	NM_005671.1	82	ggcggtggatcccgatataagg	320481	-	see also 3942 line
45265	D8S2298E	NM_005671.1	359	aggagcgctttttatcaaatgacg	320489	-	see also 3942 line
45266	SPAG1	NM_003114.3	2584	ttccgatacgaagcgaataaat	320550	-	see also 20020 line
45267	SPAG1	NM_003114.3	1030	tgcgtcgtctactacataaaa	320522	-	see also 20020 line
45268	VY2	NM_004678.1	425	gggcacatcagacatattgctga	320559	-	see also 20021 line
45269	VY2	NM_004678.1	472	ttctgcatagctgtctaaaaaat	320561	-	see also 20021 line
45270	XKRY	NM_004677.1	1096	gacacgaggtgggaacataatc	320573	-	see also 20022 line
45271	XKRY	NM_004677.1	812	ggcattcgttggtgattatcca	320566	-	see also 20022 line
45272	RQCD1	NM_005444.1	384	aacacgtcccttgagtatctcc	320585	-	see also 3792 line
45273	RQCD1	NM_005444.1	784	ttgcgccaggtgctaaaagatga	320597	-	see also 3792 line
45274	RQCD1	NM_005444.1	492	cccttatgtttgcgaattatgg	320590	-	see also 3792 line
45275	FLJ10292	NM_018048.2	138	ggcggagcgggaagcttagatat	320599	-	see also 20024 line
45276	FLJ10292	NM_018048.2	139	ggcggagcgggaagcttagatatg	320600	-	see also 20024 line
45277	SEMG1	NM_003007.2	1384	aacgaacgggaacccattattac	320613	-	see also 20025 line
45278	SEMG1	NM_003007.2	1387	gacgaaacccattattacata	320615	-	see also 20025 line
45279	ACRV1	NM_001612.4	1004	cccatggagcggagatgcaaat	320628	-	see also 1069 line
45280	ACRV1	NM_001612.4	349	ggctcatagatcatcaaacctc	320620	-	see also 1069 line
45281	AMN	NM_030943.1	72	cccaggcggtctccaaactctgg	320637	-	see also 20027 line
45282	AMN	NM_030943.1	1324	cagcaccagccacagctactcg	320639	-	see also 20027 line
45283	CLPTM1	NM_001294.1	823	ggcgtgagcggtagctactatcc	320648	-	see also 20028 line
45284	CLPTM1	NM_001294.1	822	cgccgtgagcggtagctactatc	320647	-	see also 20028 line
45285	DKK2	NM_014421.1	1069	cccagctaccgctgcaataatgg	320663	-	see also 20029 line
45286	DKK2	NM_014421.1	1163	atgaaacacagcggctactactca	320664	-	see also 20029 line
45287	DKK2	NM_014421.1	1068	cccagctaccgctgcaataatg	320662	-	see also 20029 line
45288	DKK3	NM_013253.3	1132	ggcgtcccgatgagtagatgaagt	320682	-	see also 20030 line
45289	DKK3	NM_013253.3	524	cagacacgaaggtgggaataat	320676	-	see also 20030 line
45290	GTL3	NM_013242.1	678	ggcagcgcatacggcaccattac	320690	-	see also 5357 line
45291	GTL3	NM_013242.1	558	gtcgctttcgggcaagtaactac	320687	-	see also 5357 line
45292	GTL3	NM_013242.1	556	tcgtcgctttcgggcaagtaact	320686	-	see also 5357 line
45293	ID2	NM_002166.4	275	acccgatgagcctgctatacaac	320700	-	neuroblastoma(神経芽細胞腫)、pancreatic cancer(膵臓癌)
45294	ID2	NM_002166.4	276	cccagatgagcctgctatacaaca	320701	-	-
45295	LOC58920	NM_020163.1	1927	cgcagcgttagccggtttcgatgc	320715	-	see also 45293 line
45296	LOC58920	NM_020163.1	1343	atgggacacctagatgtoatttc	320710	-	see also 20032 line
45297	NRLN1	NM_145234.2	447	cagcaagcttgcgagtagcaaatg	320720	-	see also 20032 line
45298	NRLN1	NM_145234.2	1240	gtccacgtttggactattcgaaa	320743	-	see also 20033 line
45299	NUMB	NM_003744.3	361	ggcgttcgcacgggaataatgtag	320749	-	see also 2564 line
45300	NUMB	NM_003744.3	2113	aagtccaagcagcgtactatcc	320779	-	see also 2564 line
45301	SEMA3F	NM_004186.2	454	aaccggagccctcattatata	320788	-	see also 20035 line
45302	SEMA3F	NM_004186.2	921	agccatgagcagcagtagtaca	320797	-	see also 20035 line
45303	SEMA6D	NM_020858.1	1014	tggccagcagcagcgtatttat	320831	-	see also 8000 line
45304	SEMA6D	NM_020858.1	1157	atcgctgtcgaacataataatt	320842	-	see also 8000 line

圖46 (統) 九

[illegible]

図46 (続き)

1213

45349	FLJ20366	NM_017786.1	793	tacatgtcttgcaggtaaatca	321415	-	see also 20053 line
45350	FLJ20366	NM_017786.1	1941	aacggatctctgtataacatcg	321435	-	see also 20053 line
45351	GCC1	NM_024523.5	1838	gagaagctactgcaactctatga	321447	-	see also 8625 line
45352	GCC2	NM_014635.3	4317	acgaggtctctgaaatagcttc	321554	-	see also 20054 line
45353	GCC2	NM_014635.3	1515	gtcaagagttcgaatcaatgaag	321488	-	see also 20054 line
45354	GOLGA1	NM_002077.1	2365	ggcgcctctgcacgaataaca	321588	-	see also 1341 line
45355	GOLGA1	NM_002077.1	2459	cggaaatcagagctttcaatc	321593	-	see also 1341 line
45356	GOLGA2	NM_004486.3	306	agcatggcgcatctcagaatca	321597	-	see also 20056 line
45357	GOLGA2	NM_004486.3	2976	taccgggctgacgagaatgatga	321614	-	see also 20056 line
45358	GOLGA2	NM_004486.3	547	aactcaatcacagatagagaaa	321606	-	see also 20056 line
45359	GOLGA5	NM_005113.2	2269	tagcgcgagttttgtaattata	321692	-	see also 3587 line
45360	GOLGA5	NM_005113.2	2126	aggcaatctgtcgaaatgttc	321681	-	see also 3587 line
45361	GOLGIN-	NM_015003.3	1037	gtccatacggagcagatactgc	321696	-	see also 20058 line
45362	K6IRS2	NM_080747.1	1368	atgtctggcgaataccaattc	321699	-	see also 20059 line
45363	K6IRS2	NM_080747.1	1534	aggatccctgtccaaaacctcg	321703	-	see also 20059 line
45364	KJAA0373	NM_014684.1	3695	atcgttgatgacatactagaga	321791	-	see also 20060 line
45365	KJAA0373	NM_014684.1	4387	tcctcgagattctgttgtagaag	321810	-	see also 20060 line
45366	KRT23	NM_015515.3	1801	gaccatcaacggagaattagttc	321848	-	see also 20061 line
45367	KRT23	NM_015515.3	1609	gaacagactacgccatgaactgg	321846	-	see also 20061 line
45368	KRT23	NM_015515.3	1802	accataaacggagaattagttct	321849	-	see also 20061 line
45369	KRT24	NM_019016.1	502	gaccgctggccaaattaccatga	321853	-	see also 20062 line
45370	KRT24	NM_019016.1	946	gaggtgacgctagaaatgaatgc	321857	-	see also 20062 line
45371	KRT6IRS	NM_033448.1	768	tgtctgtaagcccaataaagttg	321871	-	see also 20063 line
45372	KRT6IRS	NM_033448.1	1535	ggggcagtgcccaacgattacaaa	321876	-	see also 20063 line
45373	MCRS1	NM_006337.3	1501	gcctgcgattcgtctctctatc	321886	-	see also 20065 line
45374	MCRS1	NM_006337.3	1504	tgcgattcgtctctctatacaac	321887	-	see also 20065 line
45375	MGC33295	NM_152505.2	725	tgcctatggctcactgaatactot	321896	-	see also 20066 line
45376	MGC33295	NM_152505.2	2031	gggtatgagccctcatttggtaa	321918	-	see also 20067 line
45377	MLPH	NM_024101.4	1048	tgcactcgggtcgaatgcataca	321929	-	see also 20067 line
45378	MLPH	NM_024101.4	1912	ccccaaacggagaaaggaatgg	321940	-	see also 20068 line
45379	OLFM2	NM_058164.1	1202	aaggtctacttgcctctattttac	321946	-	see also 20068 line
45380	OLFM2	NM_058164.1	1203	aggtctacttgcctctattttacc	321947	-	see also 20068 line
45381	PCNT2	NM_006031.3	5692	gacgattgccgagagaataatag	321996	-	see also 20069 line
45382	PCNT2	NM_006031.3	8856	agcgtgaogtgcacttgcataag	322016	-	see also 20069 line
45383	PES1	NM_014303.2	256	cccgaaagttttaccttatacaa	322052	-	see also 20070 line
45384	PES1	NM_014303.2	251	agcagcccgaaactttttacctta	322050	-	see also 20070 line
45385	PES1	NM_014303.2	248	tacagcagcccgaaagttttacc	322049	-	see also 20070 line
45386	PPP1R16A	NM_032902.4	1631	ctcccagtcggcgcatctact	322064	-	see also 20071 line
45387	PPP1R16A	NM_032902.4	1633	ccccagtcggcgcatctactcc	322065	-	see also 20071 line
45388	ProSAPIP1	NM_014731.2	2778	ggcggatgtctgcagaagtga	322071	-	see also 20072 line
45389	ProSAPIP1	NM_014731.2	3386	cccgctcgcagcattgagtc	322072	-	see also 20072 line
45390	PSTPIP2	NM_024430.2	258	ggcgtgtggacagctctgaaatca	322074	-	see also 20073 line
45391	PSTPIP2	NM_024430.2	452	aacaaaagagcttaactcaag	322076	-	see also 20073 line
45392	SAV1	NM_021818.2	1073	atccgaatttggaaacctattatg	322085	-	see also 8177 line

図46 (続き)

1214

45393	SAV1	NM_021818.2	1066	ttgagtcacgcgaatttgaacc	322084	-	see also 8177 line
45394	SH3KBP1	NM_031892.1	1246	cccgtataactctgtgaagttaact	322112	-	see also 9046 line
45395	SH3KBP1	NM_031892.1	1003	ctgcgcgttagaataaactatttgg	322107	-	see also 9046 line
45396	SPAG4	NM_003116.1	878	tgcgggaagcccgactactctttg	322135	-	see also 20075 line
45397	SPAG4	NM_003116.1	879	gcggaaagcccgactactctttga	322136	-	see also 20075 line
45398	SPAG4L	NM_080675.3	1207	cagaacccctaccctcctaaagagaga	322152	-	see also 20076 line
45399	SPAG4L	NM_080675.3	866	gcggccaggtgaccatccaattg	322148	-	see also 20076 line
45400	SSNA1	NM_003731.1	316	gaotttgcagctgtctcaaga	322154	-	-
45401	TACC1	NM_006283.1	1690	aggcaaatgtoggtttaataacg	322178	-	see also 4375 line
45402	TACC1	NM_006283.1	524	ccgcatccatcacatttcaagg	322157	-	see also 4375 line
45403	TACC2	NM_006997.1	1953	caggccctgtacccttatttga	322233	-	see also 4883 line
45404	TCP10	NM_004610.1	1064	aagaaacggcgacaaaaccattg	322248	-	see also 20079 line
45405	TCP10	NM_004610.1	1065	aggaaacggcgacaaaaccattgt	322249	-	see also 20079 line
45406	TCP10	NM_004610.1	1036	ttcctgtgggacataatgtaagg	322246	-	see also 20079 line
45407	TPD52	NM_005079.1	294	agcggaacttggaaatcaattct	322254	-	see also 20081 line
45408	TPD52	NM_005079.1	363	cagcaaacctgtcttaacaagaag	322257	-	see also 20081 line
45409	UVRAG	NM_003369.2	454	caegtggcgaagtctcgattttg	322272	-	see also 2273 line
45410	UVRAG	NM_003369.2	483	tgcagacccgtctgtacacatct	322276	-	see also 2273 line
45411	UVRAG	NM_003369.2	1125	ttcgttcagcagcttactctct	322292	-	see also 2273 line
45412	VAMP1	NM_014231.3	461	tgccatcatctgtgtagttattg	322317	-	see also 20083 line
45413	VAMP1	NM_014231.3	462	gccatcatctgtgtagttattg	322318	-	see also 20083 line
45414	VEZATIN	NM_017599.2	1072	gacgttgagccctactacttct	322354	-	see also 20085 line
45415	VEZATIN	NM_017599.2	301	tcgacatcagctactacataacc	322330	-	see also 20085 line
45416	ZCWC1	NM_014941.1	2108	gagcaaaagctcggaacttagaag	322395	-	see also 20086 line
45417	ZCWC1	NM_014941.1	2339	tagccagactgataaaattgtatg	322402	-	see also 20086 line
45418	ZWINT	NM_007057.2	277	ctgaccccttggcttctgaaga	322429	-	-
45419	ZWINT	NM_007057.2	250	agcgaacagagagcaattgcagc	322428	-	see also 45418 line
45420	ZWINT	NM_007057.2	830	aacctgtgagatgtaaaatttg	322430	-	see also 45418 line
45421	DCTN4	NM_016221.2	151	caagagtgagctccattatg	322436	-	see also 6725 line
45422	DCTN4	NM_016221.2	37	cagtcggacccggttctctatct	322432	-	see also 6725 line
45423	EPLIN	NM_016357.1	507	gcctgttcagggtcgatctcc	322487	-	see also 6841 line
45424	EPLIN	NM_016357.1	893	aacctctataaaggatcgaatgg	322503	-	see also 6841 line
45425	KRTAP11-1	NM_175858.2	236	acctgttacggcggaactcatg	322536	-	see also 20089 line
45426	KRTAP11-1	NM_175858.2	288	ctogacaaaactacctgtatttcc	322537	-	see also 20089 line
45427	KRTAP13-1	NM_181599.1	330	cagtcctccagacaacttact	322538	-	see also 20090 line
45428	KRTAP7-1	NM_181606.1	31	ttccagatataccctatttctatg	322540	-	-
45429	KRTAP7-1	NM_181606.1	32	ttccagatataccctatttctatg	322541	-	see also 45428 line
45430	KRTAP8-1	NM_175857.2	195	aggagatactgccatttctctct	322543	-	see also 20091 line
45431	MGC45562	NM_152349.1	740	acctctgattgaggaataaagtct	322554	-	see also 20092 line
45432	MGC45562	NM_152349.1	870	atgcagatttccctctctcaaac	322560	-	see also 20092 line
45433	C14orf31	NM_152330.2	1094	ttctgcocggagctcataact	322589	-	see also 20093 line

1215

図46 (続き)

45434	C14orf31	NM_152330.2	1097	tgccgggaagctcatatata	322590	-	see also 20093 line
45435	C20orf42	NM_017671.2	407	cggcttgaccatcccaatgaaga	322609	-	see also 7090 line
45436	C20orf42	NM_017671.2	1190	ttcgacttgaaactctaaatata	322638	-	see also 7090 line
45437	CDC42EP4	NM_012121.3	547	ctggccctgtttgtcaagaatg	322671	-	see also 20095 line
45438	CDC42EP4	NM_012121.3	548	tcggccctgtttgtcaagaatgc	322672	-	see also 20095 line
45439	DOCK2	NM_004946.1	3216	ggggacatgagacggcgaatgg	322739	-	see also 3444 line
45440	DOCK2	NM_004946.1	780	aacaagcaaacggctataatga	322687	-	see also 3444 line
45441	EMS1	NM_005231.2	1419	gcctcagagcccgctctatgagg	322794	-	see also 20097 line
45442	EMS1	NM_005231.2	478	caagaataatcagtgaacttctc	322786	-	see also 20097 line
45443	FARP2	NM_014808.1	916	tgttccaaaggtccgtaactaag	322821	-	see also 6000 line
45444	FARP2	NM_014808.1	1997	tgcgcacgttaaaggagtttaoc	322836	-	see also 6000 line
45445	FKSG43	NM_032033.1	910	tgccacaagctgccctctatgg	322855	-	-
45446	FKSG44	NM_031904.2	890	gtgccacggagctgccgttttatg	322856	-	-
45447	FKSG44	NM_031904.2	891	tgcacacgagctgccgttttatgg	322857	-	see also 45446 line
45448	FLJ10210	NM_018027.2	2628	ctcgagctcggagcactactacc	322905	-	see also 7213 line
45449	FLJ10210	NM_018027.2	634	aagtcaggagcccggtgtttata	322864	-	see also 7213 line
45450	FLJ10210	NM_018027.2	3346	agctcagacaccgtcaagtgaat	322906	-	see also 7213 line
45451	FRMD1	NM_024919.2	533	caggcagcggcacctctactact	322912	-	see also 20100 line
45452	FRMD1	NM_024919.2	330	ataagagacgcgcagctctttg	322909	-	see also 20100 line
45453	NICAL	NM_022765.2	3100	accatcaacggcgagcactaata	322939	-	see also 20101 line
45454	NICAL	NM_022765.2	1744	caggtacggaacctgtatgatgt	322927	-	see also 20101 line
45455	STOM	NM_004099.4	887	ccctctgcccatagatgtctgc	322951	-	see also 2768 line
45456	STOM	NM_004099.4	911	aggaatcataggggcaaacacaca	322952	-	see also 2768 line
45457	STOM	NM_004099.4	160	tgggaccttgcggatgattttg	322944	-	see also 2768 line
45458	URP2	NM_031471.4	1959	gcggaattgtacacagagtatato	322963	-	see also 20102 line
45460	C14orf2	NM_004894.1	172	atccgggctgtctgataaagaag	322969	-	see also 20102 line
45461	C14orf2	NM_004894.1	101	agccctactacacccaaagttaac	322966	-	see also 20103 line
45462	HAX1	NM_006118.2	862	gccggacagagcactacagtaacc	322979	-	see also 20104 line
45463	HAX1	NM_006118.2	861	ggccggacagagcactacagtaac	322978	-	see also 20104 line
45464	TOMM70A	NM_014820.1	1535	tacgccagggcattaacagatca	323008	-	see also 6014 line
45465	TOMM70A	NM_014820.1	1530	caatatacggccagcattataca	323007	-	see also 6014 line
45466	MRV1	NM_006069.2	1958	gtcgaagaagcaacgggaagtga	323037	-	see also 20106 line
45467	MRV1	NM_006069.2	1996	atctaaagaggacgtatgagaag	323039	-	see also 20106 line
45468	PSMD1	NM_002807.2	972	tcactaatcagggtactgttcc	323072	-	see also 20107 line
45469	PSMD1	NM_002807.2	1530	aacgcagcagcatatctcgttag	323095	-	see also 20107 line
45470	PSMD10	NM_002814.2	739	gtggcctgggttaatactcaag	323140	-	see also 20108 line
45471	PSMD10	NM_002814.2	104	gggggtgtgtctaaactaatgg	323133	-	see also 20108 line
45472	PSMD12	NM_002816.2	269	atcgacatccgtatcttatttg	323142	-	see also 1833 line
45473	PSMD12	NM_002816.2	512	tgcggactgactaaacattag	323155	-	see also 1833 line
45474	PSMD12	NM_002816.2	511	gtcggcactgactaaacattata	323154	-	see also 1833 line
45475	PSMD2	NM_002808.3	645	ttgcacactgtctatggaaattg	323201	-	see also 1824 line
45476	ADFP	NM_001122.2	1092	cacattgagtcacgtactctgc	323251	-	see also 20110 line
45477	ADFP	NM_001122.2	390	aagctagagccgcaattgcagt	323241	-	see also 20110 line

1216

図46 (続き)

45478	JPH3	NM_020655.2	2463	atcgagtcgcgaattctgtttat	323263	-	see also 20111 line
45479	JPH3	NM_020655.2	2464	tggagtcgcgaattctgtttat	323264	-	see also 20111 line
45480	PIGS	NM_033198.2	436	ccctgactgtgaagtgatatt	323269	-	see also 20112 line
45481	PIGS	NM_033198.2	856	gggtgaattcccgcttgaactca	323274	-	see also 20112 line
45482	SART2	NM_013352.1	1559	ggctctgtacgggccaagaatata	323333	-	see also 5405 line
45483	SART2	NM_013352.1	1075	tggctattgggactcaaatat	323316	-	see also 5405 line
45484	SDF2L1	NM_022044.1	178	tgcactgcacgacatcaaatat	323366	-	see also 20114 line
45485	SDF2L1	NM_022044.1	177	ctgcactgcacgacatcaaat	323365	-	see also 20114 line
45486	VPREB3	NM_013378.1	282	tgtgacatcccgatgatatt	323369	-	see also 20115 line
45487	VPREB3	NM_013378.1	362	ctgaagacacgaggaattactac	323370	-	see also 20115 line
45488	PSMD11	NM_002815.2	1037	cagaatctgacccgagtcattga	323382	-	see also 1832 line
45489	PSMD11	NM_002815.2	1114	ggccgagcgtgggaaggaattat	323391	-	see also 1832 line
45490	PSMD13	NM_002817.2	520	atcggtcacagtcgtttctatg	323408	-	see also 1834 line
45491	PSMD3	NM_002809.2	1354	ggctggcgccacacggtgattag	323436	-	see also 1827 line
45492	PSMD3	NM_002809.2	1032	tactacacagggcggaatcaaacg	323428	-	see also 20119 line
45493	PSMD4	NM_002810.1	201	aacaactgggaccttaccact	323446	-	see also 20119 line
45494	PSMD4	NM_002810.1	717	gccttcgtgtatctatagaaga	323453	-	see also 20119 line
45495	PSMD4	NM_002810.1	358	accgacaaggcaagaatcacaaag	323448	-	see also 20119 line
45496	PSMD5	NM_005047.2	881	cagatctggagcttactctat	323470	-	see also 20120 line
45497	PSMD5	NM_005047.2	1211	ctcttcggtgacattagtagtca	323479	-	see also 20120 line
45498	SART1	NM_005146.3	2167	accgagagtggaatgcgaatcag	323500	-	see also 20121 line
45499	SART1	NM_005146.3	2166	aaccgagagtggaatgcgaatc	323499	-	see also 20121 line
45500	TGOLN2	NM_006484.1	833	ttcccggaagaccattccaaagc	323501	-	see also 4536 line
45501	TGOLN2	NM_006484.1	1205	gagcagccactcttgcatact	323506	-	see also 4536 line
45502	GOLPH4	NM_014498.2	1323	aggattccaaagccttcgaaacc	323523	-	see also 5728 line
45503	GOLPH4	NM_014498.2	1322	taggattccaaagccttcgaaacc	323522	-	see also 5728 line
45504	D4S234E	NM_014392.2	259	gagccctcgatgctcaatcagc	323544	-	see also 5655 line
45505	GOLPH2	NM_016548.2	1375	cagcgtgaaagcggaatcatatc	323559	-	see also 6913 line
45506	GOLPH2	NM_016548.2	1354	gacacataaattacttgatca	323558	-	see also 6913 line
45507	HMP19	NM_015980.3	335	gtgcgaaatgcgtgaatttac	323565	-	see also 20125 line
45508	HMP19	NM_015980.3	262	tgtccagaaaagggtgatttga	323563	-	see also 20125 line
45509	HMP19	NM_015980.3	229	cactccctggaggttaatoact	323562	-	see also 20125 line
45510	MAPBP1P	NM_014017.1	211	cgctgcacatagccagtaacatct	323567	-	see also 5460 line
45511	ZDHC3	NM_016598.1	1027	cacagatgagacgggaatagaac	323579	-	see also 6937 line
45512	ZDHC3	NM_016598.1	931	caccacagtgattctctctatcc	323578	-	see also 6937 line
45513	CD63	NM_001780.3	525	gggctgctaactacacagattgg	323587	-	see also 20127 line
45514	CD63	NM_001780.3	315	aggagaactattgtcttatgac	323582	-	see also 20127 line
45515	LAMP2	NM_002294.1	285	ttcacagtcagtgtaaacatc	323599	-	see also 20128 line
45516	LAMP2	NM_002294.1	289	cagtaogctatgaactacaat	323600	-	see also 20128 line
45517	CD68	NM_001251.1	349	gcacacactagctggaaatgc	323642	-	see also 20129 line
45518	CD68	NM_001251.1	542	ttcacagtcagtcagtcacaca	323644	-	see also 20129 line
45519	LAMP1	NM_005561.2	1229	aaggcgttttcagtcgaatatt	323672	-	see also 20130 line
45520	LAMP1	NM_005561.2	449	ccagctctgagtgctgtttgg	323656	-	see also 20130 line
45521	LAPTM5	NM_006762.1	704	ggcgggtgctacagattgacag	323680	-	see also 20131 line

図46 (続き)

1217

45522	LAPTM5	NM_006762.1	147	ggcaatctaccatgtgatcatga	323675	-	see also 20131 line
45523	PEX14	NM_004565.1	93	gccacggcagtgaggtttctaca	323681	-	see also 3105 line
45524	PEX14	NM_004565.1	95	cacggcagtgaggtttctacaga	323682	-	see also 3105 line
45525	PXMP4	NM_007238.3	187	ttccggaacggggcgtctctatgg	323687	-	-
45526	PXMP4	NM_007238.3	162	cgctgcgttgccgcgtcttaagg	323686	-	see also 45525 line
45527	PXMP2	NM_018663.1	290	tgccgtttacagggtttctttcca	323695	-	see also 20132 line
45528	PXMP2	NM_018663.1	539	gtggacgccactacatgttcaca	323699	-	see also 20132 line
45529	SRP72	NM_006947.2	1746	ggcaatcgaggaacgtttctact	323745	-	see also 20133 line
45530	SRP72	NM_006947.2	882	tgccggaaggagtgaggttaagc	323720	-	see also 20133 line
45531	BRD7	NM_013263.1	1588	ttggcgttccagttgaagttttt	323769	-	see also 5381 line
45532	BRD7	NM_013263.1	328	acgcccctgtgagattagacttg	323753	-	see also 5381 line
45533	ICA1	NM_004968.1	210	atcgatatgctcaagataatga	323778	-	see also 3450 line
45534	ICA1	NM_004968.1	388	atcgaaagcaattgactctatc	323787	-	see also 3450 line
45535	ICA1	NM_004968.1	265	gacgaagcaggccctttataaag	323781	-	see also 3450 line
45536	MVP	NM_005115.3	946	gtcggaccggatggcaagaatca	323822	-	see also 20137 line
45537	MVP	NM_005115.3	1274	aggtgcgcgtgtgattggaagc	323826	-	see also 20137 line
45538	NFKBIE	NM_004556.1	776	agctggaagaactcaactacatc	323835	-	see also 20138 line
45539	NFKBIE	NM_004556.1	820	gtccactggcagtgattcatga	323836	-	see also 20138 line
45540	TUB	NM_003320.3	1635	tgctgacacgtgcgagaataag	323851	-	see also 20140 line
45541	TUB	NM_003320.3	1639	agcacgtgtgcagaataagaaca	323853	-	see also 20140 line
45542	FLJ39369	NM_152363.2	1517	cccaagggtcgctcagatctgg	323863	-	see also 20141 line
45543	FLJ39369	NM_152363.2	1610	tacacgggaggcgtgtatgtgg	323864	-	see also 20141 line
45544	LEMD2	NM_181336.2	303	ccctggggcctcagtgatctcc	323865	-	see also 20142 line
45545	LEMD2	NM_181336.2	945	cagctctccgcgaagattgaag	323872	-	see also 20142 line
45546	ACRG	NM_052957.2	1740	taogcataggttggaataaacaag	323907	-	see also 20143 line
45547	ACRG	NM_052957.2	250	ggcgagttgcatcttaattgctc	323879	-	see also 20143 line
45548	AKIP	NM_017900.1	436	gtcggagttgcatcttaattgctc	323921	-	see also 20144 line
45549	AKIP	NM_017900.1	459	gtcgaanaacgtctgaagatcc	323923	-	see also 20144 line
45550	BARD1	NM_000465.1	221	tgctgcgtgtgactaactctct	323929	-	see also 373 line
45551	BARD1	NM_000465.1	223	ctcgcgtgtactaactatctga	323930	-	see also 373 line
45552	BOP1	NM_015201.3	529	tgagtgccaggcgcacatcaaaag	324004	-	see also 6277 line
45553	BRD4	NM_014299.1	1476	tgatgctgacgtccgattgatgt	324019	-	see also 5607 line
45554	BRD4	NM_014299.1	1478	gtgctgacgtccgattgatgttc	324020	-	see also 5607 line
45555	BXDC1	NM_032194.1	23	gacactctgagtcagtagtaaa	324035	-	-
45556	BXDC1	NM_032194.1	900	aagaccacagagaaaaagtaaaa	324037	-	see also 45555 line
45557	BXDC1	NM_032194.1	876	agcgacactcagaaaaggataaca	324036	-	see also 45555 line
45558	C5orf6	NM_016605.1	1075	ttcgttgacactttgacagatga	324041	-	see also 20148 line
45559	C5orf6	NM_016605.1	1071	ggccttcgttgacactttgacaaag	324040	-	see also 20148 line
45560	COIL	NM_004645.1	1025	gagtgtcgtcgggttttttaaa	324058	-	see also 3164 line
45561	COIL	NM_004645.1	254	aacgaactgcctcagagtttaatt	324049	-	see also 3164 line
45562	CTNNB1	NM_030877.3	539	ggcttgctcgacacagataaac	324079	-	see also 8958 line
45563	CTNNB1	NM_030877.3	533	ctcggacacagataataacagatgt	324081	-	see also 8958 line
45564	D21S2056	NM_003683.3	938	tacgaggcaggttgtaacagact	324113	-	see also 20151 line
45565	D21S2056	NM_003683.3	373	caggctgcgccttgataaattct	324109	-	see also 20151 line

1218

図46 (続き)

45566	DKFZp761 B128	NM_152437.1	1843	tgccccatgtgagggaatttt	324117	-	see also 20152 line
45567	DKFZp761 B128	NM_152437.1	1872	gagagcagatctttttatgcato	324120	-	see also 20152 line
45568	DKFZp761 B128	NM_152437.1	1864	ttctctgagagagcagatctttt	324118	-	see also 20152 line
45569	DNTTIP1	NM_052951.2	170	tacgaaccttggaacataatga	324124	-	see also 20153 line
45570	DNTTIP1	NM_052951.2	174	aaccttggaacataatgataaa	324125	-	see also 20153 line
45571	DXS9928E	NM_004699.1	407	aggagccaaagcggagaagatctoc	324139	-	see also 20154 line
45572	DXS9928E	NM_004699.1	179	tcgcggaggagaaacatcatgaaa	324138	-	see also 20154 line
45573	FAM9A	NM_174951.2	1017	gcgcgtacttgagcaattactaa	324145	-	see also 20155 line
45574	FAM9A	NM_174951.2	1019	cgctacttgagcaattactaaag	324147	-	see also 20155 line
45575	FAM9A	NM_174951.2	1045	gccaaaggacactaaagacaaat	324150	-	see also 20155 line
45576	FAM9C	NM_174901.2	573	gccgaatgctctgaaggtca	324153	-	-
45577	FBXL4	NM_012160.3	698	ttcaagaggagccacctaattt	324168	-	see also 5158 line
45578	FBXL4	NM_012160.3	701	aaggaggagccacctaatttca	324169	-	see also 5158 line
45579	FBXL4	NM_012160.3	703	ggaggagccacctaatttcaaga	324170	-	see also 5158 line
45580	FHL2	NM_001450.2	1177	ttcaagctcgagatgacttgc	324234	-	see also 20157 line
45581	FHL2	NM_001450.2	1395	cccgactgtgggaaagacatct	324236	-	see also 20157 line
45582	FHL2	NM_001450.2	1394	gccccgactgtgggaaagacatc	324235	-	see also 20157 line
45583	FJX1	NM_014344.2	997	gcgcacttaattcttttgcact	324243	-	see also 20158 line
45584	FJX1	NM_014344.2	975	agctgtgagacctagtacaatgg	324240	-	see also 20158 line
45585	FLJ14011	NM_022103.2	795	aagaaacacctatttcatcata	324249	-	see also 20160 line
45586	FLJ14011	NM_022103.2	621	tagtgaagcttctctttaaac	324246	-	see also 20160 line
45587	FLJ20079	NM_017656.1	216	aattoagaatgggaaatacaac	324256	-	-
45588	FLJ21628	NM_030613.1	598	cagtaaaagcatgcacttatig	324264	-	see also 20161 line
45589	FLJ21628	NM_030613.1	184	gagctatccctcttaagcaco	324261	-	see also 20161 line
45590	FLJ22059	NM_022752.2	147	aggtgcttatgacccaaactcc	324268	-	see also 8454 line
45591	FLJ22059	NM_022752.2	1499	ctgacccggcaccacacgtttgt	324271	-	see also 8454 line
45592	FLJ30726	NM_153018.1	1332	aggcggacctctcacctattgt	324293	-	see also 20162 line
45593	FLJ30726	NM_153018.1	282	gagtcgatgacccaaactcc	324280	-	see also 20162 line
45594	FLJ32053	NM_152484.2	2237	ctcagtgctcactgcttaatta	324312	-	see also 20163 line
45595	FLJ32053	NM_152484.2	1102	gtoattaccccttgaagttaa	324306	-	see also 20163 line
45596	FLJ36870	NM_173658.1	764	gtcggagtgcggccttatata	324323	-	see also 20164 line
45597	FLJ36870	NM_173658.1	766	cggagttgggcttatataca	324324	-	see also 20164 line
45598	FLJ38002	NM_152412.1	1634	cccgacttgaggattttctoca	324353	-	see also 20165 line
45599	FLJ38002	NM_152412.1	907	cagctatgcttaataaagacat	324342	-	see also 20165 line
45600	FLJ38451	NM_175872.3	330	aagttacacacccatcatcagaac	324362	-	see also 20166 line
45601	FLJ38451	NM_175872.3	1453	aacagacagcccttacgatgc	324375	-	see also 20166 line
45602	FLJ38705	NM_173832.2	548	ttcagcgttcttaataagatga	324384	-	see also 20167 line
45603	FLJ38705	NM_173832.2	366	agcctcaggcagaaaaaagaag	324380	-	see also 20167 line
45604	FLJ90764	NM_173656.1	1782	aacagggctatcccgagtaagc	324399	-	see also 20168 line
45605	FLJ90764	NM_173656.1	1468	cacgcggttcggattttctca	324396	-	see also 20168 line
45606	FLJ90764	NM_173656.1	1465	ttccaccgagttcggattttct	324395	-	see also 20168 line

1219

図46 (続き)

45607	HIRP3	NM_003609.2	1769	tgtgtcccatcgaactacaaga	324410	-	see also 20169 line
45608	HIRP3	NM_003609.2	716	tgttagcgaccggagagaaaa	324403	-	see also 20169 line
45609	HSPC111	NM_016391.2	903	gagtaagatcaacgtctataaac	324421	-	see also 20170 line
45610	HSPC111	NM_016391.2	793	cgagacactactactatgaag	324420	-	see also 20170 line
45611	KIAA0103	NM_014673.2	810	tagttggcgacgtagtcaataaa	324441	-	see also 5854 line
45612	KIAA0924	NM_014897.1	584	gacgtgcatctgttgaagaaga	324448	-	see also 20172 line
45613	KIAA0924	NM_014897.1	1103	aagcacatgaacgtactcatag	324456	-	see also 20172 line
45614	KIAA1190	NM_145166.2	483	gtccctccatgagctacaaga	324479	-	see also 20173 line
45615	KIAA1190	NM_145166.2	512	acggctacacgagagaagtctc	324480	-	see also 20173 line
45616	KIAA1615	NM_020951.1	1948	tgccaaaccgaaatttacatgg	324501	-	see also 20174 line
45617	KIAA1615	NM_020951.1	1944	tactggcacaacgaaatttaca	324500	-	see also 20174 line
45618	LOC14821	NM_138286.1	1483	tctatagatcctcaaacattac	324504	-	see also 20175 line
45619	LOC14821	NM_138286.1	421	aaggtaagacacaccagaaaaa	324502	-	see also 20175 line
45620	LOC51058	NM_015911.2	747	ggcggaccttcagcgatatctcc	324508	-	-
45621	LOC51058	NM_015911.2	523	caccacgacacagcaagatcacc	324507	-	see also 45620 line
45622	LOC51058	NM_015911.2	841	ctcccgagctcgatctctacc	324509	-	see also 45620 line
45623	LOC84661	NM_032574.1	425	gaccaccaatccattgaattt	324514	-	see also 20176 line
45624	LOC84661	NM_032574.1	271	gacaacgttgagagaatagtaga	324510	-	see also 20176 line
45625	LOC84661	NM_032574.1	274	aacgttgagagaatagtagaaaa	324511	-	see also 20176 line
45626	LOC90589	NM_145233.2	1178	tgctctogagcgttaaatccatg	324519	-	see also 20177 line
45627	LOC90589	NM_145233.2	1175	atgtgctcggagcgttaaatcc	324518	-	see also 20177 line
45628	LOC90589	NM_145233.2	1179	gcctcgagcgttaaatccatga	324520	-	see also 20177 line
45629	LPIN2	NM_014646.2	952	cagcgtgctctaaagagtgattca	324530	-	see also 20178 line
45630	LPIN2	NM_014646.2	788	aggcgtgagctcggatgtgaca	324526	-	see also 20178 line
45631	MDM1	NM_017440.2	168	tctctccgtggcggaagtaacc	324563	-	see also 7012 line
45632	MDM1	NM_017440.2	553	accaagttcttcaagaaatgt	324567	-	see also 7012 line
45633	MGC13071	NM_032689.2	1133	gtcatgccacaagcctcatat	324622	-	see also 20180 line
45634	MGC13071	NM_032689.2	628	aggctcaattatcccttaaaat	324616	-	see also 20180 line
45635	MGC27466	NM_152373.2	491	atctgactaccactgttgatg	324634	-	see also 20181 line
45636	MGC27466	NM_152373.2	669	ttgccacactaattagacttact	324642	-	see also 20181 line
45637	MGC45408	NM_152289.1	1319	cactaatccacaagtcttatto	324654	-	see also 20182 line
45638	MGC45408	NM_152289.1	1322	tacatccacaagttcttaccgc	324655	-	see also 20182 line
45639	MGC45408	NM_152289.1	1317	ttcactacatccacaagtcttat	324653	-	see also 20182 line
45640	NPAT	NM_002519.1	655	tcccgtagacgacaaagtgaat	324670	-	see also 20183 line
45641	NPAT	NM_002519.1	1367	gagtcogtgccttaattgaaga	324693	-	see also 20183 line
45642	NUCKS	NM_022731.1	286	cactcagcagagtagtggaaga	324796	-	see also 20184 line
45643	NUCKS	NM_022731.1	157	ggcctcccactaagaaattcgc	324791	-	see also 20184 line
45644	NUSAP1	NM_016359.1	1046	aagaccatcacgggaattctgc	324803	-	see also 20185 line
45645	NUSAP1	NM_016359.1	875	ctoaagcgctctgtctctctgc	324802	-	see also 20185 line
	ORF1-					gpcr,	
45646	FL49	NM_032412.2	312	ctcaggagcctctaaaccaca	324821	-	receptor_activity,
45647	ORF1-	NM_032412.2	205	accttatccaccacccaatgg	324819	-	signal_transduction
45648	ORF1-	NM_032412.2	309	gacctcaggagcctctctaaacc	324820	-	see also 45646 line

図46 (続き)

1220

45649	PCNP	NM_020357.1	243	aggtatcagacacacaaagaag	324824	-	see also 20186 line
45650	PCNP	NM_020357.1	166	gagaagcagatcagctgaagaaga	324822	-	see also 20186 line
45651	PELP1	NM_014389.1	1285	accaagctgtatgcgattattaga	324833	-	see also 5649 line
45652	PELP1	NM_014389.1	1528	cacgggaaagggagatagcaatgc	324834	-	see also 5649 line
45653	PELP1	NM_014389.1	1222	tcctggagcagctggtagagattc	324832	-	see also 5649 line
45654	PHLDA1	NM_007350.1	1267	caccgcatccgcacacaaatacc	324845	-	see also 20188 line
45655	PHLDA1	NM_007350.1	653	agctctggaaagaaaagtgttc	324843	-	see also 20188 line
45656	PLINP-1	NM_062850.2	282	ggcgaagaagcgggaatggtacc	324848	-	see also 20189 line
45657	PLINP-1	NM_052850.2	230	gggtgtcccggtgtctgttc	324847	-	see also 20190 line
45658	PRAC	NM_032391.2	135	tgcgcattctcagataaagg	324850	-	see also 20190 line
45659	PRAC	NM_032391.2	180	aagagtctttttctcttaataa	324851	-	see also 20190 line
45660	RBBP5	NM_005057.1	1029	ctgttcgaccatcatagcatcc	324874	-	see also 3526 line
45661	RBBP5	NM_005057.1	768	cagatcgaataatcagagtttat	324872	-	see also 3526 line
45662	RNF144	NM_014746.2	1107	tcctctgatacatcogataag	324894	-	see also 20192 line
45663	RNF144	NM_014746.2	669	tacaggagacagagattggtgc	324886	-	see also 20192 line
45664	SH3BGR1	NM_031469.1	396	gaocgataactgtggagattatga	324899	-	see also 20193 line
45665	SH3BGR1	NM_031469.1	209	ctgggcttcgtgctgataaaga	324896	-	see also 20193 line
45666	SH3BGR1	NM_031286.1	104	caccggctcccggaatacaagt	324902	-	see also 20194 line
45667	UBCE7IP5	NM_014948.2	673	ggcactgtgcccacttaaggatc	324908	-	see also 6146 line
45668	UBCE7IP5	NM_014948.2	1089	ttcacggggtagcttttaactcc	324912	-	see also 6146 line
45669	UTX	NM_021140.1	1464	ctcggcgcaatagaaaataatt	324933	-	see also 8100 line
45670	UTX	NM_021140.1	1287	gaggcgtggagccctaccattcc	324927	-	see also 8100 line
45671	UTY	NM_007125.3	3446	aagtagacctgcttttagctagc	324991	-	see also 20197 line
45672	UTY	NM_007125.3	1846	ggcgaatcgtgtattttcttgg	324965	-	see also 20197 line
45673	WDR13	NM_017883.3	555	caagtttcggacgcaagtatatac	325004	-	see also 20198 line
45674	WDR13	NM_017883.3	959	gccttgcgggcaatgtatcatgt	325007	-	see also 20198 line
45675	WDR13	NM_017883.3	734	cgcaagttagccgcaactactctga	325005	-	see also 20198 line
45676	WDR3	NM_006784.1	1104	atccagcgggtgactaatataaa	325040	-	see also 20199 line
45677	WDR3	NM_006784.1	528	aagaacctgctagttactatagg	325029	-	see also 20199 line
45678	WRB	NM_004627.2	429	gtcgtccgagtaaatggataac	325103	-	see also 20200 line
45679	WRB	NM_004627.2	424	tgcctgtcgtccgagtaaatagg	325101	-	see also 9566 line
45680	YT521	NM_133370.1	673	atcggaaaattcgtctatcaagt	325109	-	see also 20201 line
45681	ZFP1	NM_153688.1	373	gacgagcagcggcaggcaattttt	325157	-	see also 20201 line
45682	ZFP1	NM_153688.1	627	aaccacagtgagtagaataatt	325164	-	see also 20201 line
45683	ZFP1	NM_153688.1	377	agcaggcgggcaatttttaatt	325160	-	see also 20201 line
45684	ZNF285	NM_152354.2	723	atcaacgggtgaaaaacogtaatg	325181	-	see also 20202 line
45685	ZNF285	NM_152354.2	308	aacaaggatccgggttttaact	325177	-	see also 20202 line
45686	ZNF491	NM_152356.2	1035	ctgccttataagcttctgaaga	325191	-	see also 20203 line
45687	ZNF491	NM_152356.2	619	tcctcaagcattcagaagatata	325188	-	see also 20203 line
45688	ZNF493	NM_175910.4	1810	acctcctgggcacacgaataatt	325196	-	see also 20204 line
45689	ZNF493	NM_175910.4	692	tggcacatcttttaccattct	325195	-	see also 20204 line
45690	ZNF501	NM_145044.1	577	ttcgtaaaacagtcgaattctac	325200	-	see also 20205 line
45691	ZNF501	NM_145044.1	656	aagcctttcaacacaaagcaatt	325201	-	see also 20205 line
45692	ZNF502	NM_033210.3	1424	cagagcaccctcactactaaca	325221	-	see also 20206 line

図46 (続き)

1221

45693	ZNF502	NM_033210.3	1426	gagcaccactcaactaaacatc	325222	-	see also 20206 line
45694	ATF7IP	NM_018179.3	2861	aactaatcaggtctctatacaga	325272	-	see also 7304 line
45695	ATF7IP	NM_018179.3	3856	ttgtatctgttagcaaatactac	325297	-	see also 7304 line
45696	C14orf18	NM_021178.2	969	gagcgcaatcgtcagatcaaaa	325318	-	see also 20208 line
45697	C14orf18	NM_021178.2	970	agcgcaatcgtcagatcaaaaag	325319	-	see also 20208 line
45698	C14orf18	NM_021178.2	1012	gccttaggtacagaaacatcact	325322	-	see also 20208 line
45699	LOC11284	NM_080666.1	1261	aacgagtaagagttcatagtaat	325364	-	see also 20209 line
45700	LOC11284	NM_080666.1	1267	tacgagttcatagtaatgattct	325366	-	see also 20209 line
45701	LRP10	NM_014045.2	2084	attttaacagagatgatgactoc	325380	-	see also 20210 line
45702	LRP10	NM_014045.2	519	gccatccagagacgggattttt	325368	-	see also 20210 line
45703	LRP10	NM_014045.2	518	ggccatccagagacgggattttt	325367	-	see also 20210 line
45704	WDR21	NM_015604.2	1265	ggccatccagagacgggattttt	325392	-	-
45705	WDR21	NM_015604.2	1268	ggccatccagagacgggattttt	325393	-	see also 45704 line
45706	WDR21	NM_015604.2	366	cagagctactcgggttttacttt	325381	-	see also 45704 line
45707	WDR23	NM_025230.3	1303	atggccgttttcgtaattcaag	325400	-	see also 20211 line
45708	WDR23	NM_025230.3	950	tcgtctggggatcgatacaac	325395	-	see also 20211 line
45709	FLJ12847	NM_024596.1	1376	aagcgggttgctgaaagacaca	325446	-	see also 20212 line
45710	FLJ12847	NM_024596.1	355	ttgaacatttcacgtgatactt	325429	-	see also 20212 line
45711	MDC1	NM_014641.1	2795	tgcatccagccgagttagaaga	325500	-	see also 20213 line
45712	MDC1	NM_014641.1	5652	gcctccagaggaacaaactaac	325514	-	see also 20213 line
45713	MDC1	NM_014641.1	5651	agcctccagaggaacaaactaa	325513	-	see also 20213 line
45714	PAXIP1L	NM_007349.2	2379	ggcaaatatcgggtttatctatg	325559	-	see also 5082 line
45715	PAXIP1L	NM_007349.2	2919	aagttctcagcggcgatttctgt	325571	-	see also 5082 line
45716	PAXIP1L	NM_007349.2	1099	ctgaggtccggggtaatttaag	325535	-	see also 5082 line
45717	CD9	NM_001769.2	241	attctcggagcaagaactaatga	325594	-	see also 20215 line
45718	CD9	NM_001769.2	146	actcgtctcgggatttaacttc	325592	-	see also 20215 line
45719	CDW52	NM_001803.1	61	ctctgggttatgtacagataca	325600	-	see also 20216 line
45720	CDW52	NM_001803.1	84	aactggaactctcagagcaaaaacg	325602	-	see also 20216 line
45721	CEACAM4	NM_001817.1	252	ttctactggcctgcaatttca	325606	-	-
45722	CEACAM4	NM_001817.1	455	tacacctacgaaccataaatgc	325610	-	see also 45721 line
45723	CEACAM4	NM_001817.1	452	tctacacctacgaaccataaaa	325609	-	see also 45721 line
45724	DSCR2	NM_003720.1	575	atgttacccgattataaaacctca	325625	-	see also 20217 line
45725	DSCR2	NM_003720.1	569	gtcgacatgttaacgattataaaa	325624	-	see also 20217 line
45726	GARP	NM_005512.1	880	cggctcccgagactcaactacc	325636	-	see also 20218 line
45727	GARP	NM_005512.1	1637	tgctcaagcggctcaactcttcg	325640	-	see also 20218 line
45728	GPM6A	NM_005277.2	862	agcggctcaatgcatacacataa	325666	-	see also 3702 line
45729	GPM6A	NM_005277.2	729	atgggttaactaccattatgttct	325659	-	see also 3702 line
45730	GYPE	NM_002102.2	214	ggcgatagctcgtgttttttt	325667	-	see also 20220 line
45731	GYPE	NM_002102.2	215	ggcgatagctcgtgtttttttg	325668	-	see also 20220 line
45732	GYPE	NM_002102.2	216	ggcgatagctcgtgtttttttga	325669	-	see also 20220 line
45733	HEM1	NM_005337.2	261	tccgaaacagcagcgaacattta	325679	-	see also 3724 line
45734	HEM1	NM_005337.2	1208	ctggttagccacacagagaatgt	325707	-	see also 3724 line
45735	JTB	NM_006694.2	1081	ttcggttgttgttcattctcg	325749	-	see also 20222 line
45736	JTB	NM_006694.2	1025	tggaaacaacgcttattttggaag	325747	-	see also 20222 line

1222

図46 (続き)

45737	JTB	NM 006694.2	1021	ttgatggaacacacgctattttg	325746	-	see also 20222 line
45738	KAI1	NM 002231.2	361	cgccgtggggcagtcactatgc	325751	-	see also 20223 line
45739	KAI1	NM 002231.2	697	ccctgttctctcgaaagcaagg	325754	-	see also 20223 line
45740	M11S1	NM 005898.2	1983	acgtacacacagccctattaca	325797	-	see also 4104 line
45741	M11S1	NM 005898.2	2099	atggttaacgcccttcttctct	325800	-	see also 4104 line
45742	MLANA	NM 005511.1	180	atcggtctgttgattttagaag	325813	-	see also 20225 line
45743	MLANA	NM 005511.1	175	tgtcatcggtctgttgattt	325811	-	see also 20225 line
45744	MLANA	NM 005511.1	177	ctcatcggtctgttgattttag	325812	-	see also 20225 line
45745	MOX2	NM 005944.3	803	ttctgtctactatctaatctta	325831	-	see also 20226 line
45746	MOX2	NM 005944.3	714	ggggacttgaccgacttaagc	325828	-	see also 20226 line
45747	NET-5	NM 006675.2	687	aacgggctgtctatgaaaggta	325836	-	see also 20227 line
45748	NET-5	NM 006675.2	815	tcacccggactggttaagaagac	325838	-	see also 20227 line
45749	NET-7	NM 012339.2	258	aggttgagcggcagaataataa	325841	-	see also 20228 line
45750	NET-7	NM 012339.2	257	gggttgagcggcagaataataa	325840	-	see also 20228 line
45751	NGF7	NM 005601.2	271	gacgagaccttcagcattatgg	325850	-	see also 20229 line
45752	PODXL	NM 005397.2	951	ccctaccgtctatcggttatctcg	325855	-	see also 20230 line
45753	PODXL	NM 005397.2	1370	cagaccgtggtgtcgaagaatat	325860	-	see also 20230 line
45754	SYNGR1	NM 004711.3	351	agcgtcaaggaccgcaagaagc	325866	-	-
45755	T1A-2	NM 006474.3	443	agcgaagaacgctataagtctgg	325872	-	see also 20233 line
45756	T1A-2	NM 006474.3	439	aaccgaagaagaccgctataagt	325871	-	see also 20233 line
45757	TM4SF13	NM 014399.2	548	taggcgaagtctcgaaatgaca	325886	-	see also 20234 line
45758	TM4SF13	NM 014399.2	476	ttctgtatctcgctctgttttag	325883	-	see also 20234 line
45759	TM7SF1	NM 003272.1	963	actaccacacttagctgtttatt	325903	-	see also 20235 line
45760	TM7SF1	NM 003272.1	909	gggagatctggatcactatatt	325900	-	see also 20235 line
45761	TMEM4	NM 014255.2	785	atccgaatcgactcagatattag	325916	-	see also 20236 line
45762	TMEM4	NM 014255.2	908	tgcagtaagcgaacagatcttgg	325921	-	see also 20236 line
45763	TMEM5	NM 014254.1	1092	tgcgcggctggagtaaacacaga	325946	-	see also 20237 line
45764	TMEM5	NM 014254.1	1109	cacagaaatgctatcgaatctatg	325947	-	see also 20237 line
45765	ADIPO1	NM 015999.2	766	caccgtctattgtcattcagaga	325961	-	see also 6600 line
45766	ADIPO1	NM 015999.2	756	ggctctttcacaccgctctatgt	325959	-	see also 6600 line
45767	ADIPO2	NM 024551.2	281	tgttacacgaagagagtgataatg	325972	-	see also 20239 line
45768	ADIPO2	NM 024551.2	1187	ccggatcccggaacgcttttcc	325993	-	see also 20239 line
45769	AMIGO2	NM 181847.2	1683	ttgcgtggccagctatcgtttgg	326027	-	see also 10258 line
45770	AMIGO2	NM 181847.2	758	ccctaattctcgtcatacaaac	326003	-	see also 10258 line
45771	AMIGO2	NM 181847.2	1590	aactgtggagctcacaataatg	326023	-	see also 10258 line
45772	ANTXR2	NM 058172.1	268	gacggctgtggcccatcatatgc	326043	-	see also 20241 line
45773	ANTXR2	NM 058172.1	229	acctccagtatcataatgctct	326042	-	see also 20241 line
45774	ARL6P	NM 015161.1	322	ccctcttagcgcctagaatttt	326065	-	see also 20242 line
45775	ARL6P	NM 015161.1	321	tccattctagcgcctagaatttt	326064	-	see also 20242 line
45776	BM88	NM 016564.2	575	ggcagccatagccctgattctcg	326074	-	see also 20243 line
45777	C11orf15	NM 020644.1	238	ttcagagatctcagatgtaaatg	326075	-	see also 7901 line
45778	C11orf15	NM 020644.1	470	ttctactctgtacatggttat	326084	-	see also 7901 line
45779	C19orf4	NM 012109.1	564	ctccacctggacatactacttcg	326090	-	see also 20245 line
45780	C1orf8	NM 004872.3	343	gaccgcttcgactgaagcatttg	326091	-	see also 3385 line

図46 (続き)

1223

45781	C20orf103	NM_012261.2	842	ggcgtccacatcaaaccttttga	326125	-	see also 20247 line
45782	C20orf103	NM_012261.2	768	atgagtgcaagctcaacaacc	326123	-	see also 20247 line
45783	C20orf165	NM_080608.3	546	ggcgcctcaagcttttcattgag	326131	-	see also 20248 line
45784	C20orf165	NM_080608.3	643	atgcctcctagtgagctaaag	326132	-	see also 20248 line
45785	C20orf39	NM_024893.1	986	acggctgcccacacaagacagc	326134	-	-
45786	C20orf39	NM_024893.1	1017	cccgatgggaattcattgacc	326135	-	see also 45785 line
45787	C20orf39	NM_024893.1	1039	ctctcagctgagcaataaaa	326136	-	see also 45785 line
45788	C20orf46	NM_018354.1	1326	gacctcagggctcattacotgo	326142	-	see also 20249 line
45789	C20orf46	NM_018354.1	1102	ccccgtgagctcagtcataatcc	326140	-	see also 20249 line
45790	C20orf52	NM_080748.1	205	ctgcttcagacctgtcaaatgg	326144	-	see also 20250 line
45791	C20orf52	NM_080748.1	203	agctgctctgacccgtgtcaaat	326143	-	see also 20250 line
45792	C20orf52	NM_080748.1	264	ggcgctcttcggcacctttcc	326145	-	see also 20250 line
45793	C20orf54	NM_033409.2	741	gtcaatgtcaactgagatatcaga	326150	-	see also 20251 line
45794	C20orf54	NM_033409.2	939	tgtctgctctggtggcttttgt	326152	-	see also 20251 line
45795	C20orf54	NM_033409.2	738	tgcgtcaatgtcaactgagatatc	326149	-	see also 20251 line
45796	C20orf75	NM_152611.2	1011	gtcgccacacacatcttccaaga	326156	-	see also 20252 line
45797	C20orf75	NM_152611.2	1170	ctctcagcagatgcaaaagagaac	326159	-	see also 20252 line
45798	C21orf61	NM_178817.2	204	agcctctgccccatactacagc	326164	-	see also 20253 line
45799	C21orf61	NM_178817.2	276	agctgaagccccacaacattcc	326166	-	see also 20253 line
45800	C22orf20	NM_025225.2	1203	aactgtacccttaggataat	326179	-	see also 20254 line
45801	C22orf20	NM_025225.2	583	aagctgtggatgcttggatgt	326171	-	see also 20254 line
45802	C22orf5	NM_012264.2	654	gaattattccatcggattctga	326190	-	see also 20255 line
45803	C22orf5	NM_012264.2	586	atcggagatcagagagaacc	326185	-	see also 20255 line
45804	C22orf5	NM_012264.2	978	gtatggggccatcccccaaatcc	326191	-	see also 20255 line
45805	C3orf4	NM_019895.1	1250	aaccacaatagcgggattgatct	326205	-	see also 7752 line
45806	C3orf4	NM_019895.1	968	gaatttgatgaatatogaag	326195	-	see also 7752 line
45807	C6orf31	NM_030651.2	1004	cgcgcagcacccacagagaaactact	326220	-	see also 20257 line
45808	C6orf31	NM_030651.2	1006	cgcagcaccacagaaactactgg	326221	-	see also 20257 line
45809	CAV2	NM_001233.3	413	ggcggagcgtacagctcttcagg	326222	-	see also 20258 line
45810	CDG91L1	NM_080476.3	763	ccccgactctggtcttact	326249	-	see also 20259 line
45811	CDG91L1	NM_080476.3	762	ccccgactctggtcttact	326248	-	see also 20259 line
45812	CEACAM7	NM_006890.1	702	gtcgcgtatgagtcagtcacaagc	326274	-	see also 20260 line
45813	CEACAM7	NM_006890.1	220	tgcattgccactatcagattata	326264	-	see also 20260 line
45814	CGI-119	NM_016056.1	93	ctcgatcggagcagcacttcaact	326276	-	see also 20261 line
45815	CGI-119	NM_016056.1	292	ctcgatctctgggtttgatttt	326280	-	see also 20261 line
45816	CGI-147	NM_016077.1	311	agcgggagtcacaaagattctct	326295	-	see also 20262 line
45817	CGI-147	NM_016077.1	333	tgtgtgttgaaatgacttaag	326299	-	see also 20262 line
45818	CKAP4	NM_006825.2	1767	tgtcactctggtcaaaatagaaa	326319	-	see also 20263 line
45819	CKAP4	NM_006825.2	1763	tgtgtcactctggtcaaaatagaaa	326318	-	see also 20263 line
45820	CLN6	NM_017882.1	556	ccccatcacaagaatcacaagc	326324	-	see also 20264 line
45821	CLN6	NM_017882.1	337	ggccagtggtgggactacttcc	326322	-	see also 20264 line
45822	CUZD1	NM_022034.3	2316	atctcaacctacagcctaataca	326369	-	see also 8242 line
45823	CUZD1	NM_022034.3	2319	tccaacctacagcctaatacaaga	326371	-	see also 8242 line
45824	CUZD1	NM_022034.3	1665	caccttggaatgctcaact	326341	-	see also 8242 line

1224

図46 (続き)

45825	DO-	NM_030927.1	475	tctaccgggagacagatatogattct	326385	-	see also 8965 line
45826	DO-	NM_030927.1	566	acotcaacgtctacttcaattgc	326389	-	see also 8965 line
45827	DO-	NM_030927.1	805	atctcgtctgttcagagatttgg	326390	-	see also 8965 line
45828	DCAL1	NM_172004.2	248	tagtctacgtcgaatcaaaact	326397	-	see also 20267 line
45829	DCAL1	NM_172004.2	250	gtctacgtcgaatcaaaactgt	326398	-	see also 20267 line
45830	ELOVL5	NM_021814.2	644	caocgaggagaaatcagatataga	326418	-	see also 20268 line
45831	ELOVL5	NM_021814.2	831	tggggccactcttatttgggc	326424	-	see also 20268 line
45832	ELOVL5	NM_021814.2	871	tccacgtctcatttactcttac	326425	-	see also 20268 line
45833	ELOVL6	NM_024090.1	417	gtgttcgcaacctaatgaataaa	326430	-	see also 8588 line
45834	F-LANa	NM_016041.2	389	tacaataatgtctctctgtgt	326459	-	see also 6636 line
45835	F-LANa	NM_016041.2	208	tggccacagcctttacaaat	326455	-	see also 6636 line
45836	F-LANa	NM_016041.2	375	tggccacagcctttacaaat	326458	-	see also 6636 line
45837	FAM14A	NM_032036.1	383	ccccactcaagtcagagaaaca	326468	-	see also 20270 line
45838	FAM14A	NM_032036.1	281	ggggcctcttggggaattcaacc	326465	-	see also 20270 line
45839	FAM14B	NM_145249.1	448	ctggactctctgtgacatcaaa	326470	-	see also 20271 line
45840	FAM14B	NM_145249.1	410	tggcagctctgtgagctattctgc	326469	-	see also 20271 line
45841	FLJ10134	NM_018004.1	1016	atogttggaatgaattatgcttt	326496	-	see also 20272 line
45842	FLJ10134	NM_018004.1	537	cccatctgatttatgactat	326481	-	see also 20272 line
45843	FLJ10134	NM_018004.1	931	aggtctctcagtgagctctgagtg	326492	-	see also 20272 line
45844	FLJ22233	NM_024959.2	1034	aggacgggtatcttctaataacc	326509	-	see also 20273 line
45845	FLJ22233	NM_024959.2	1033	gaggacgggtatcttctaatacc	326508	-	see also 20273 line
45846	FLJ22800	NM_024795.1	700	ctctaagcgaagaagcaaatg	326531	-	see also 20274 line
45847	FLJ22800	NM_024795.1	698	gtcttaagcgaagaagcaaat	326530	-	see also 20274 line
45848	FLJ30002	NM_152341.2	796	gggcaactccaccagatcagtc	326539	-	see also 9841 line
45849	FLJ30002	NM_152341.2	367	tgcaggtctcgtgctctataacc	326534	-	see also 9841 line
45850	FLOT1	NM_005803.2	625	tccacgatgaaccagactatttg	326542	-	see also 20276 line
45851	FLOT1	NM_005803.2	803	gagagattacgaactgaagaagg	326544	-	see also 20276 line
45852	GHITM	NM_014394.1	963	ggcaatgtacgttgagtagtg	326573	-	see also 20277 line
45853	GHITM	NM_014394.1	648	tggaaatgctgtacgagcaaac	326561	-	see also 20277 line
45854	GPSN2	NM_004868.1	146	tggcgtctcccatcttctgagtc	326580	-	see also 20278 line
45855	GPSN2	NM_004868.1	78	gtggatggcctattacataatc	326579	-	see also 20278 line
45856	GYP A	NM_002099.2	449	gacacagacgtcctttaagtc	326599	-	see also 20279 line
45857	GYP A	NM_002099.2	193	tacgcacaaacgggacacatacg	326590	-	see also 20279 line
45858	HCST	NM_014266.3	189	atcatcactcctgccttttaacc	326601	-	see also 20280 line
45859	HCST	NM_014266.3	359	atggcaaaagtctacatacaactg	326604	-	see also 20280 line
45860	HSPC039	NM_016097.2	255	ggagtgccattgataatagtaa	326612	-	see also 20281 line
45861	HSPC039	NM_016097.2	226	aaccttattgactgaagaac	326609	-	see also 20281 line
45862	HTGN29	NM_020199.1	372	aaccgtactcaactcaacattt	326617	-	see also 20282 line
45863	HTGN29	NM_020199.1	363	acggagcccaactcgtactcaact	326616	-	see also 20282 line
45864	HUCEP11	NM_014858.1	256	gagacaaatgggacagatctct	326633	-	see also 20283 line
45865	HUCEP11	NM_014858.1	612	cagcctcactccgaacaagtgtg	326634	-	see also 20283 line
45866	IFRG28	NM_022147.1	168	ggctcaaggggtggaagaataacc	326637	-	see also 20284 line
45867	IFRG28	NM_022147.1	685	gggagtggtggtgagaataagg	326647	-	see also 20284 line
45868	IGSF8	NM_052868.1	1274	ggctatggggccgacacattgc	326649	-	see also 20285 line

図46 (続き)

1225

45869	IGSF8	NM_052868.1	1846	cgcctoaaggccctgttacagtct	326651	-	see also 20285 line
45870	ITM2A	NM_004867.2	116	cctaccgcgcgtgcaaaaggagg	326655	-	see also 20286 line
45871	ITM2A	NM_004867.2	113	tacctaccgcgcgtgcaaaagg	326654	-	see also 20286 line
45872	ITM2C	NM_030926.3	568	gtctgactgagtcacatgatata	326679	-	see also 8964 line
45873	ITM2C	NM_030926.3	818	aacgcggagcgcgattacaacagc	326681	-	see also 8964 line
45874	KIAA0133	NM_014777.1	4386	actgcctaccggtctctaaagtgt	326764	-	see also 20288 line
45875	KIAA0133	NM_014777.1	1980	aggtggagcgtatgttcagtttg	326712	-	see also 20288 line
45876	KIAA0152	NM_014730.1	614	caagctcacgatgaattatatac	326784	-	see also 20289 line
45877	KIAA0152	NM_014730.1	456	ggctccgaagtcgccatcaaaaga	326780	-	see also 20289 line
45878	KIAA0247	NM_014734.1	339	tcttcgcgtagtgatcctttgc	326793	-	see also 20290 line
45879	KIAA0247	NM_014734.1	503	atgttgaggcgcattacaataa	326796	-	see also 20290 line
45880	KIAA0779	NM_015008.1	1097	atcgcgtacagtcctatgaacg	326827	-	see also 20291 line
45881	KIAA0779	NM_015008.1	722	cagctagcccaaatatggttag	326816	-	see also 20291 line
45882	KIAA0779	NM_015008.1	571	agcaggcgtctgtgtctcaaacg	326809	-	see also 20291 line
45883	KIAA1145	NM_020698.1	901	gtcaggctcggccgacagtaacg	326849	-	see also 7922 line
45884	LAPTM4B	NM_018407.3	509	tgtcggcgtctgtgtctgtatgc	326858	-	see also 20292 line
45885	LAPTM4B	NM_018407.3	570	ggctgatccggatcaagtataact	326865	-	see also 20292 line
45886	LAPTM4B	NM_018407.3	961	aactgctaccgatacatcaatgg	326876	-	see also 20292 line
45887	LEPROTL1	NM_015344.1	125	ggacaatggagctgatgtttttg	326883	-	see also 20293 line
45888	LEPROTL1	NM_015344.1	123	aggagcaatcggagctgattttt	326882	-	see also 20293 line
45889	LOC11621	NM_138461.1	551	tgcattagtaggaattatctgtat	326906	-	see also 20294 line
45890	LOC11621	NM_138461.1	547	ggactgcattagtaggaattatct	326905	-	see also 20294 line
45891	LOC11644	NM_138786.1	209	atcgtgaacattattgtatttt	326913	-	see also 20295 line
45892	LOC11644	NM_138786.1	200	tggagataatcgtgaacattatt	326912	-	see also 20295 line
45893	LOC91663	NM_138373.2	960	ctcggcgtcggagagatgtaagc	326934	-	-
45894	LRRTM1	NM_178839.3	733	tgtcgggtctctgtctatactgg	326935	-	see also 20296 line
45895	LRRTM1	NM_178839.3	965	cggccagttcacggaggtaatgc	326936	-	see also 20296 line
45896	LRRTM2	NM_015564.1	1661	attctactcagcgggtaattac	326983	-	see also 6475 line
45897	LRRTM2	NM_015564.1	1100	ctgcacagctctcttcttaacag	326965	-	see also 6475 line
45898	MAL2	NM_052886.1	509	aaccagataacataaacgtagc	327004	-	see also 20298 line
45899	MAL2	NM_052886.1	524	aacgtagcagcctcaatttttgc	327005	-	see also 20298 line
45900	MAL2	NM_052886.1	292	gtccgtgacagcgtttttctttt	326997	-	see also 20298 line
45901	MPDU1	NM_004870.1	168	tggctggtcactctagttaaag	327012	-	see also 20300 line
45902	MPDU1	NM_004870.1	169	ggctggctcaactctagttaaagc	327013	-	see also 20300 line
45903	MPRG	NM_017705.2	1338	tcccaagccaggaattacataaaa	327029	-	see also 20301 line
45904	MPRG	NM_017705.2	810	gtgcaccacttccatgactact	327020	-	see also 20301 line
45905	NIFIE14	NM_032635.2	335	gacctgattaggtctaaacttgt	327032	-	see also 20302 line
45906	NIFIE14	NM_032635.2	740	ctgtatgtgcctgtgtcaatgt	327038	-	see also 20302 line
45907	NMA	NM_012342.1	965	ttcacggcacaccattcaaaaag	327046	-	see also 20303 line
45908	NMA	NM_012342.1	439	ctcacaaaggtagaattcgatg	327040	-	see also 20303 line
45909	PANX1	NM_015368.3	828	aagtttacaaaccgtgcaattaa	327057	-	see also 20305 line
45910	PANX1	NM_015368.3	859	gagtcgcgtgaccttgacatga	327058	-	see also 20305 line
45911	PANX2	NM_052839.2	443	tgcagagatcgacaactgttac	327082	-	see also 20306 line
45912	PANX2	NM_052839.2	914	tccgcaagagcaacttctcttc	327083	-	see also 20306 line

図46 (続き)

1226

45913	PANX3	NM_052959.2	886	cggtagacaaacgactttatc	327106	-	see also 9472 line
45914	PANX3	NM_052959.2	540	ggctcggaaagacgatacttg	327093	-	see also 9472 line
45915	PANX3	NM_052959.2	660	ctccgcaactacacatacttg	327095	-	see also 9472 line
45916	PAQR3	NM_177453.2	563	ttcctggcactggcagaanaaa	327121	-	see also 10163 line
45917	PAQR6	NM_024897.2	855	caggagccttcgctatccattc	327136	-	see also 20309 line
45918	PAQR6	NM_024897.2	1595	gacggtgagggggcctcttgatgg	327145	-	see also 20309 line
45919	PKD1L1	NM_138295.2	154	tggtctggagctctatgaatca	327147	-	see also 20310 line
45920	PKD1L1	NM_138295.2	153	gtgggtcgaggtctatgtaatc	327146	-	see also 20310 line
45921	RFT1	NM_052859.2	1245	gaggtgcacaggtacaatttgt	327333	-	see also 9439 line
45922	RFT1	NM_052859.2	817	cagaaggcggcgcgatgtgatg	327319	-	see also 9439 line
45923	SECTM1	NM_003004.1	775	ggcgtggcactgggttcaaac	327344	-	see also 20312 line
45924	SECTM1	NM_003004.1	473	ctcgtgggacacacagagaataa	327341	-	see also 20312 line
45925	SELS	NM_018445.2	312	tggcgaagtggaaagcataagg	327350	-	see also 7480 line
45926	SELS	NM_018445.2	311	atgcgcaagtggaaaagcataag	327349	-	see also 7480 line
45927	SELS	NM_018445.2	158	ttctcaggtggctttcagaag	327346	-	see also 7480 line
45928	SEZ6L	NM_021115.2	1738	tcgacccgacctataacattgg	327361	-	see also 20313 line
45929	SEZ6L	NM_021115.2	1737	atccgcccgaacctataacattg	327360	-	see also 20313 line
45930	SLC24A4	NM_153646.1	582	gtgcggagactcgtgtactaca	327393	-	see also 10003 line
45931	SLC24A4	NM_153646.1	584	ggcgagactcgtgtactacacc	327394	-	see also 10003 line
45932	SMP1	NM_014313.2	197	ggggggaaagcgcataactatt	327422	-	see also 20315 line
45933	SMP1	NM_014313.2	355	atgattaatcagatctcgaatgg	327429	-	see also 20315 line
45934	SORCS1	NM_052918.2	727	agcgtgaagataatgtactaca	327444	-	see also 9443 line
45935	SORCS1	NM_052918.2	1179	tacgtgtactaccgaagaatgc	327457	-	see also 9443 line
45936	STARD3N	NM_032016.2	562	agcaaaagtgatccttccgaagc	327528	-	see also 20316 line
45937	STARD3N	NM_032016.2	326	accttgacctcttattcgtaac	327517	-	see also 20316 line
45938	SYNGR4	NM_012451.2	858	ggcccaacagcctcgtgtatgc	327536	-	see also 20317 line
45939	SYNGR4	NM_012451.2	738	ttccaggacctccgaatgatgc	327534	-	see also 20317 line
45940	TACSTD1	NM_002354.1	721	cacgagtattttgtatgagaata	327548	-	see also 1522 line
45941	TACSTD1	NM_002354.1	306	atcgtcaatgcagtgacttca	327541	-	see also 1522 line
45942	TDE1	NM_006811.2	876	tgcgttggcttctattatc	327584	-	see also 4786 line
45943	TDE1	NM_006811.2	239	caaggtagctgcctcattatg	327564	-	see also 4786 line
45944	TDE2	NM_020755.2	1067	atccgtacttcaaacacatagta	327625	-	see also 7945 line
45945	TDE2	NM_020755.2	1283	accaactgtacaggtatgaacc	327636	-	see also 7945 line
45946	TDE2	NM_020755.2	1304	ccctctcgtgagatgaaaaatca	327637	-	see also 7945 line
45947	TED	NM_015686.1	837	ttcgacctcgtcgtgcataaata	327646	-	see also 20321 line
45948	TED	NM_015686.1	1007	gacccggtgcccctttatactcc	327654	-	see also 20321 line
45949	TM4-B	NM_012466.2	553	aacgagccagacactattctac	327665	-	see also 20322 line
45950	TM4-B	NM_012466.2	606	gtgctgtgggtgaataactaca	327668	-	see also 20322 line
45951	TM4SF12	NM_012338.2	427	ttcagtagcaatgctcagatag	327680	-	see also 5298 line
45952	TM4SF12	NM_012338.2	881	atgtccctcagtagaacgttga	327694	-	see also 5298 line
45953	TM7SF3	NM_016551.1	1675	tggccgattaacccagattaaag	327740	-	see also 20324 line
45954	TM7SF3	NM_016551.1	122	agcagaggtcttattgaatttc	327702	-	see also 20324 line
45955	TMC2	NM_080751.1	1037	ttcgatcaggtggccagcaatacc	327757	-	see also 9522 line
45956	TMC2	NM_080751.1	2007	acccatgaacgcgtgttcaag	327781	-	see also 9522 line

図46. (続き)

1227

45957	TMC2	NM_080751.1	2008	cccatgaacgcgtgttoaaagc	327782	-	see also 9522 line
45958	TMEFF1	NM_003692.2	529	aggaccatctactctgataatg	327801	-	see also 20326 line
45959	TMEFF1	NM_003692.2	317	aggagctctgcgtaagagtttg	327791	-	see also 20326 line
45960	TMEM10	NM_033207.2	758	gaocgttacccgtctactctaga	327825	-	see also 20327 line
45961	TMEM10	NM_033207.2	705	aagaggcccatatattgaag	327824	-	see also 20327 line
45962	TMEM15	NM_014908.1	533	ttccgaattgcgcaaacagtgg	327829	-	see also 20328 line
45963	TMEM15	NM_014908.1	1750	atctatattggcagatcaattt	327847	-	see also 20328 line
45964	TMEM15	NM_014908.1	1313	ccaccatcccggaagatttt	327840	-	see also 20328 line
45965	TMEM2	NM_013390.1	1781	ggcgcgtacccctgtttcatttca	327903	-	see also 5419 line
45966	TMEM2	NM_013390.1	584	gagccacacgtgcatctatagt	327860	-	see also 5419 line
45967	TMEM7	NM_031440.1	665	ttctacgcatgcgaaccaca	327988	-	see also 20330 line
45968	TMEM7	NM_031440.1	499	ctctgaaggcccaacaatagt	327984	-	see also 20330 line
45969	TNMD	NM_022144.1	1018	cgcgtctgtgaacctttactagg	328012	-	see also 8313 line
45970	TNMD	NM_022144.1	1037	taggctactaccatattccatc	328013	-	see also 8313 line
45971	UPK1A	NM_007000.2	572	gtccgcggcgggaaacttcac	328021	-	see also 20332 line
45972	UPK1A	NM_007000.2	445	ctctgggaacccgctcatgtga	328018	-	see also 20332 line
45973	UPK3A	NM_006953.1	509	cacggagtagcaggttcaagtga	328027	-	see also 20333 line
45974	UPK3A	NM_006953.1	290	ctcaagcttctacaacacagagg	328025	-	see also 20333 line
45975	VANGL1	NM_138959.1	1058	aacatgaacggcgagtaagaag	328053	-	see also 9642 line
45976	VANGL1	NM_138959.1	1023	ctcaagcccaacagagttgatt	328049	-	see also 9642 line
45977	ZDHHC1	NM_013304.1	1506	aggaagagcggcggtataaagt	328074	-	see also 20335 line
45978	ZDHHC1	NM_013304.1	850	cggaaactaccgctctttctaca	328068	-	see also 20335 line
45979	ZDHHC11	NM_024786.1	865	tgcgtgggaagccgggaatttg	328084	-	see also 20336 line
45980	ZDHHC11	NM_024786.1	1071	gacctgatgtgtgcatcag	328089	-	see also 20336 line
45981	ZDHHC11	NM_024786.1	713	tgcctgtcttcgaagatcaaaa	328078	-	see also 20336 line
45982	ZDHHC12	NM_032799.3	297	ctctcggcgcgtcagatactgc	328090	-	see also 20337 line
45983	ZDHHC2	NM_016353.2	365	tgcctgtatggcctcatctact	328093	-	see also 6833 line
45984	ZDHHC4	NM_018106.2	663	aacgtgaggtgtctactcttga	328131	-	see also 20339 line
45985	ZDHHC4	NM_018106.2	944	cacggctcttattcagatcc	328134	-	see also 20339 line
45986	ZDHHC5	NM_015457.1	425	tgcgcggaactaccgttatttt	328142	-	see also 20340 line
45987	ZDHHC5	NM_015457.1	424	gtgcgcgggaactaccgttatttt	328141	-	see also 20340 line
45988	ZDHHC5	NM_015457.1	1732	gcatgcccctcgtactagtcc	328159	-	see also 20340 line
45989	ZDHHC6	NM_022494.1	1498	agccacaagaggtttaogatact	328200	-	see also 20341 line
45990	ZDHHC6	NM_022494.1	557	tgtgtattggcccttaccataaac	328174	-	see also 20341 line
45991	ZDHHC7	NM_017740.1	1104	gagatcgacgcatgaaagtga	328220	-	see also 20342 line
45992	ZDHHC7	NM_017740.1	989	acctcgataactgtatctctgt	328217	-	see also 20342 line
45993	ZDHHC8	NM_013373.1	525	tgcacgtggcgtcgaactatog	328227	-	see also 20343 line
45994	ZDHHC8	NM_013373.1	2341	cacggcacacgcgtgttaagaag	328232	-	see also 20343 line
45995	ZDHHC9	NM_016032.1	695	cacggcctcgtataaagaatttc	328241	-	see also 20344 line
45996	ZDHHC9	NM_016032.1	696	accgcctcgtataaagaatttc	328242	-	see also 20344 line
45997	SNAP91	NM_014841.1	2930	accttagcggatcttaacatc	328292	-	see also 6046 line
45998	SNAP91	NM_014841.1	607	acctcataaggcgtctatagt	328255	-	see also 6046 line
45999	SNAP91	NM_014841.1	2931	ccattagcggatcttaacatc	328293	-	see also 6046 line
46000	MAGEA1	NM_004988.3	480	tccggagcagtaactcaagaag	328298	-	see also 20346 line

図46 (続き)

1228

46001	MAGEA1	NM_004988.3	444	aggggccaagcaactctgtatc	328295	-	see also 20346 line
46002	SSFA2	NM_006751.3	823	aagccgttttgcgaattgaag	328313	-	see also 20347 line
46003	SSFA2	NM_006751.3	963	caacttaactcgaagtaacact	328321	-	see also 20347 line
46004	SSFA2	NM_006751.3	1588	gtcgaaagagatcatctgtac	328336	-	see also 20347 line
46005	CACNA2D	NM_006030.1	789	ttcatatcggtctacagatcc	328374	-	see also 20348 line
46006	CACNA2D	NM_006030.1	424	gaagggtatgcggatttttgg	328370	-	see also 20348 line
46007	CACNA2D	NM_018398.1	1942	aagcgattaaagtctacctaaa	328469	-	see also 7440 line
46008	CACNA2D	NM_018398.1	595	ggcagattccgggattaaatgg	328430	-	see also 7440 line
46009	CACNA2D	NM_018398.1	1398	accagatcgaaggcattcttct	328451	-	see also 7440 line
46010	CACNA2D	NM_172364.2	1274	gtccaggcggagcggagacaatg	328512	-	see also 20350 line
46011	CACNA2D	NM_172364.2	1119	tggacgtgaggcggcagtgatgaag	328510	-	see also 20350 line
46012	CKLFSF2	NM_144673.2	366	gcgcctacacgggtgggaattaaa	328561	-	see also 20351 line
46013	CKLFSF2	NM_144673.2	365	cgccgctacacgggtgggaattaaa	328560	-	see also 20351 line
46014	CKLFSF2	NM_144673.2	367	ccgctaccgggtgggaattaaaag	328562	-	see also 20351 line
46015	CKLFSF3	NM_144601.2	691	tactcggatggggttccaaagc	328575	-	see also 20352 line
46016	CKLFSF3	NM_144601.2	647	cgccctcatctactttgtcttc	328573	-	see also 20352 line
46017	CKLFSF4	NM_178818.2	579	ttcttattgttcaatgtact	328583	-	see also 10209 line
46018	CKLFSF5	NM_138460.2	692	agcgcttcgaccgaattactgg	328595	-	see also 20354 line
46019	CKLFSF5	NM_138460.2	689	accagcgcttcgaccgaattaac	328594	-	see also 20354 line
46020	CKLFSF5	NM_138460.2	630	ggcgctactgaggttcttcaaa	328593	-	see also 20354 line
46021	CKLFSF6	NM_017801.2	609	tctactgaattactactatg	328607	-	see also 20355 line
46022	CKLFSF6	NM_017801.2	608	ttctactgaattactactat	328606	-	see also 20355 line
46023	CKLFSF6	NM_017801.2	413	ctcttactatgattgtattg	328599	-	see also 20355 line
46024	CKLFSF7	NM_138410.2	476	caccatttgcacttgatgaaga	328613	-	see also 9617 line
46025	CKLFSF7	NM_138410.2	535	acgcgtgtctacacctgtatcagc	328614	-	see also 9617 line
46026	DOCK4	NM_014705.2	421	gagctgaagcggccacttactgc	328634	-	see also 20357 line
46027	DOCK4	NM_014705.2	2555	cagctatcttagcaacgtattt	328684	-	see also 20357 line
46028	FLJ30532	NM_144724.1	277	agctatagcgcagatctcaaac	328767	-	see also 20358 line
46029	FLJ30532	NM_144724.1	1182	ctcggagacatagagaatatg	328802	-	see also 20358 line
46030	FLJ33990	NM_153226.1	351	tagagattagtcgctttogattg	328806	-	see also 9978 line
46031	FLJ33990	NM_153226.1	1113	atgttggagcggccattcgtaaa	328842	-	see also 9978 line
46032	GP2	NM_001502.1	307	aggggtgcgataaaaacatgagc	328849	-	see also 20360 line
46033	GP2	NM_001502.1	530	cccgaggcgggtaccatgtgtacc	328850	-	see also 20360 line
46034	KIAA0792	NM_014698.1	762	tggacaaaagaccgtatagtttt	328870	-	see also 20361 line
46035	KIAA0792	NM_014698.1	1620	cgtgtaataacccgcatcatcagc	328880	-	see also 20361 line
46036	MAMDC2	NM_153267.3	2516	aagccattcggaggagtacaata	328951	-	see also 9985 line
46037	MAMDC2	NM_153267.3	2238	tgggttaggctactacatgaca	328943	-	see also 9985 line
46038	MGC3295	NM_025246.1	1315	ctctcattgatgatacacaga	328974	-	see also 20363 line
46039	MGC3295	NM_025246.1	1313	tgtctctcaatgatgatacaga	328973	-	see also 20363 line
46040	STOML3	NM_145286.1	897	accgagaagaattctcagattgt	329007	-	see also 20364 line
46041	STOML3	NM_145286.1	444	accagagactccgtaactactca	328998	-	see also 20364 line
46042	TDE2L	NM_178865.2	1210	gaggagtgccacactatgtctaga	329016	-	see also 20365 line
46043	TDE2L	NM_178865.2	255	cacggtagcgcctcatcttca	329012	-	see also 20365 line
46044	TERE1	NM_013319.1	764	ctgtgcgcttgcctctactacc	329026	-	see also 20366 line

図46 (続き)

1229

46045	TERE1	NM_013319.1	1089	ggccccagttctctacattct	329028	-	see also 20366 line
46046	OSP5	NM_006574.2	750	gagcctgcttacttactacatg	329041	-	see also 20367 line
46047	OSP5	NM_006574.2	777	cacccctcttgatgaattctgatt	329046	-	see also 20367 line
46048	INESG1	NM_012337.1	1580	ccgtggagcgcacgcagatca	329071	-	see also 20368 line
46049	INESG1	NM_012337.1	1061	accagatggtgatgaggttaacc	329068	-	see also 20368 line
46050	FGL1	NM_004467.2	1012	gcagttatgcaacataatagaat	329079	-	see also 20369 line
46051	FGL1	NM_004467.2	1281	ggccctctacacggctaaacaga	329087	-	see also 20369 line
46052	CHGB	NM_001819.1	1279	cccccagcttagctgttataaga	329094	-	see also 20370 line
46053	CHGB	NM_001819.1	1386	ggccacgtgccttttctatct	329097	-	see also 20370 line
46054	CRISP2	NM_003296.1	243	ggcttactaccgggtgttttc	329109	-	see also 20371 line
46055	CRISP2	NM_003296.1	860	atcaagatctctcaagtaactgt	329129	-	see also 20371 line
46056	HFL3	NM_005666.1	489	cccaaatgcaggtccactatttc	329133	-	see also 20373 line
46057	HFL3	NM_005666.1	773	aacaggtgacatggtgaatttg	329138	-	see also 20373 line
46058	HFL3	NM_005666.1	767	ttcaagaacaggtgacatagtg	329136	-	see also 20373 line
46059	PRH2	NM_005042.1	126	gagttcccttggtaatatcaga	329142	-	see also 20375 line
46060	SCGB1D1	NM_006552.1	90	tgctgtaccgggcaaatgcagt	329143	-	see also 20376 line
46061	SCGB1D2	NM_006551.2	180	acctgttcaagtaagtccttg	329147	-	see also 20377 line
46062	SCGB1D2	NM_006551.2	152	agctgttagactcttcttcatt	329145	-	see also 20377 line
46063	SEMG2	NM_003008.2	121	agcggatcttcccaattccaca	329148	-	see also 20378 line
46064	SEMG2	NM_003008.2	222	cacatcatctatgacatcaatg	329149	-	see also 20378 line
46065	ASPN	NM_017680.2	468	cagtgctattcacagctgtaca	329158	-	see also 20379 line
46066	ASPN	NM_017680.2	471	tgctattcacaggtttacattg	329160	-	see also 20379 line
46067	CRTP	NM_006371.2	846	gagaaacctacccacagttatagg	329203	-	see also 20380 line
46068	CRTP	NM_006371.2	157	ggcacgcgcgtgacaggtacagc	329190	-	see also 20380 line
46069	DCN	NM_001920.2	239	tcctggcgtgacccgtttcaaca	329207	-	see also 20381 line
46070	DCN	NM_001920.2	262	gagagccttatttgactttatgc	329209	-	see also 20381 line
46071	GPC2	NM_152742.1	603	ctctggcgttcgagactctctatg	329237	-	see also 20382 line
46072	GPC2	NM_152742.1	1830	gggggcacatctatggttttcaaca	329240	-	see also 20382 line
46073	C9orf19	NM_022343.2	140	aaccgggagcgtcaacagctattc	329245	-	see also 20383 line
46074	C9orf19	NM_022343.2	141	accggggagcgtcaacagctattct	329246	-	see also 20383 line
46075	C9orf19	NM_022343.2	339	gacacttcacggcccatggtatgg	329250	-	see also 20383 line
46076	DKFZP434	NM_031476.1	1035	aacctctggggtcaactacatga	329263	-	see also 20384 line
46077	B044	NM_031476.1	279	ggccaacgtcactctcttagagg	329254	-	see also 20384 line
46078	FGL2	NM_006682.1	1017	tgatttacaagttggttaactata	329304	-	see also 4716 line
46079	LOC57151	NM_020426.1	153	gacaaaggcgtactactctctatt	329318	-	see also 20386 line
46080	LOC57151	NM_020426.1	159	ggcgtactcatctctatttggtca	329319	-	see also 20386 line
46081	LOC83690	NM_031461.2	761	ccccagcgtttcaatgacaatag	329342	-	see also 20387 line
46082	LOC83690	NM_031461.2	760	ccccagcgtttcaatgacaatc	329341	-	see also 20387 line
46083	MGC26768	NM_144634.2	537	ttccgcttactgaatcctaatt	329394	-	see also 20388 line
46084	MGC26768	NM_144634.2	293	ttccaggtggtgcttacatcttg	329390	-	see also 20388 line
46085	MGC39497	NM_152436.1	735	aagcgtatgaacactagtgtttt	329414	-	see also 20389 line
46086	MGC39497	NM_152436.1	366	atgtgggtcgccctgaaatga	329406	-	see also 20389 line

図46 (続き)

1230

46087	MGC39497	NM_152436.1	736	agcattgaacactagtgtttta	329415	-	see also 20389 line
46088	R3HDM1	NM_178491.1	384	ccggtcgttagtgatctcaga	329421	-	see also 20390 line
46089	R3HDM1	NM_178491.1	641	ttggcgagtcgccgtacaagatg	329425	-	see also 20390 line
46090	SPACA3	NM_173847.2	560	gcaggatgactgctcagatttg	329434	-	see also 20391 line
46091	SPACA3	NM_173847.2	593	atctcaaggatcacggttatctg	329436	-	see also 20391 line
46092	C6orf135	NM_024839.1	104	accaggcgtggcgagggtttac	329439	-	see also 20392 line
46093	182-FIP	NM_020772.1	991	gaggactctggaccctatttaa	378696	-	see also 20393 line
46094	182-FIP	NM_020772.1	1777	ttggaccacgctcatatagatga	378726	-	see also 20393 line
46095	24432	NM_022914.1	993	cgcaaccaagactagatgttca	384855	-	see also 20394 line
46096	24432	NM_022914.1	1349	ggctctgcaggacctatctcga	384856	-	see also 20394 line
46097	24b2/STA C2	NM_198993.1	1107	taagtgtgactctacaagttct	440389	-	see also 10353 line
46098	24b2/STA C2	NM_198993.1	1103	ctctactgtgactctacaagt	440388	-	see also 10353 line
46099	384D8-2	NM_014551.3	476	ccggactaacgtggatctcaaga	340832	-	see also 20396 line
46100	384D8-2	NM_014551.3	479	gactaacgtggtatctcaagaatg	340833	-	see also 20396 line
46101	7A5	NM_182762.1	488	tcctactacagcacttaggttg	435157	-	see also 20397 line
46102	7A5	NM_182762.1	826	atgttaggcaacctcaatacaat	435170	-	see also 20397 line
46103	7h3	NM_033025.3	1638	tcagatgtcgcccttacttgc	402613	-	see also 20398 line
46104	7h3	NM_033025.3	1176	tcagcggctctgctatctgagg	402609	-	see also 20398 line
46105	7h3	NM_033025.3	1935	ccgcacacctgaatccaagact	402615	-	see also 20398 line
46106	AASDHPP	NM_015423.2	440	atgaatccttaccocgaatttca	352602	-	see also 6406 line
46107	AASDHPP	NM_015423.2	332	tggtgctgtatagaagaagaat	352600	-	see also 6406 line
46108	AAT1	NM_033364.2	1074	agcgacgcatgtatcaacaatc	403728	-	see also 9414 line
46109	AAT1	NM_033364.2	1071	ttcagcgacgcatgtatcaaca	403726	-	see also 9414 line
46110	ABC1	NM_022070.3	1655	tgacacctatgatgctctaaac	382101	-	see also 20401 line
46111	ABC1	NM_022070.3	255	tgccgactggtacctctaatca	382062	-	see also 20401 line
46112	ABC1	NM_022070.3	254	ttgcagactgtgactcttaatc	382061	-	see also 20401 line
46113	ACMSD	NM_138326.1	335	ctgggactcagaagttcgtatta	407493	-	see also 20402 line
46114	ACMSD	NM_138326.1	312	ttcagagtggtgcgagagaattg	407492	-	see also 20402 line
46115	ACN9	NM_020186.1	40	ctcagctccggcattgtacaag	375860	-	see also 20403 line
46116	ACN9	NM_020186.1	41	tcgagtcgggcatgttacaagc	375861	-	see also 20403 line
46117	ACY-3	NM_080658.1	1000	acgggtgtaccocgtgttcaaa	406563	-	see also 20404 line
46118	ACY-3	NM_080658.1	417	caccggacgacccatagagg	406560	-	see also 20404 line
46119	AD024	NM_020675.3	218	ggcggactcaagagatacctaca	377910	-	see also 20405 line
46120	AD024	NM_020675.3	763	ttcccaatgttcggaaagctttt	377920	-	see also 20405 line
46121	AD024	NM_020675.3	764	tgccaatgttcggaaagctttt	377921	-	see also 20405 line
46122	AD031	NM_032021.2	269	tcctgtcaggtcacgaaaaaga	397608	-	see also 20406 line
46123	AD031	NM_032021.2	271	ctgtcaggtcacgaaaaagaac	397609	-	see also 20406 line
46124	AD158	NM_032270.2	2193	atcgtaaatgacatcgattta	399291	-	see also 9130 line
46125	AD158	NM_032270.2	2177	tcgataactggacttactgtac	399288	-	see also 9130 line
46126	AD158	NM_032270.2	238	ggcgtgttgatgtactttaca	399250	-	see also 9130 line
46127	AD24	NM_022451.9	465	agcatgaacgcatattagataaa	382795	-	see also 8360 line
46128	AD24	NM_022451.9	1161	ttcaacaacaacatcatgtattg	382809	-	see also 8360 line

図46 (続き)

1231

46129	ADAMTS2	NM_025003.2	2221	ccgcaggagcaacaacgctga	392962	-	see also 8832 line
46130	ADAMTS2	NM_025003.2	4198	aacaagccactagcgaataca	393030	-	see also 8832 line
46131	ADAMTS2	NM_025003.2	480	tagatggtacgctgtctataca	404540	-	see also 20410 line
46132	ADAMTS2	NM_025003.2	621	ggctgtccgagggcagataaa	404545	-	see also 20410 line
46133	ADCK2	NM_025003.2	977	ctgcagacagcgtgtttctaga	404425	-	see also 20411 line
46134	ADCK2	NM_025003.2	1256	caatgaccgctgtaacgaagc	404428	-	see also 20411 line
46135	ADCK4	NM_024876.2	531	aggggattgtcagaccattgt	391626	-	see also 20412 line
46136	ADCK4	NM_024876.2	981	agggcgttggccacgaatttc	391629	-	see also 20412 line
46137	ADCK5	NM_174922.2	226	tcctcgagccgctatgtatg	428682	-	see also 20413 line
46138	ADCK5	NM_174922.2	53	acgggtgcagctctgtcattcc	428680	-	see also 20413 line
46139	ADCK5	NM_174922.2	741	gaactcgggagccgcttggatg	428684	-	see also 20413 line
46140	ADMP	NM_145035.2	191	ccctcggggagagatattcagc	413015	-	see also 20414 line
46141	ADMP	NM_145035.2	383	cgggacgagctcttcattatt	413019	-	see also 20414 line
46142	AE2	NM_032264.1	1072	atctctatgatgaatgttgg	399140	-	-
46143	AE2	NM_032264.1	491	ttcctggccacccggcacaataa	399139	-	see also 46142 line
46144	AE2	NM_032264.1	1307	gtcgtggttggctctgacataag	399141	-	see also 46142 line
46145	AEBP2	NM_153207.2	733	gacatagagccatgtcttaaac	422135	-	see also 9975 line
46146	AEBP2	NM_153207.2	666	aacaaagagcagcagctcattcc	422131	-	see also 9975 line
46147	AF15Q14	NM_020380.2	3621	aacgtattgtccacagataatt	377250	-	see also 20416 line
46148	AF15Q14	NM_020380.2	215	ctgttagaagcggcattctca	377146	-	see also 20416 line
46149	AF311304	NM_031214.1	77	ggggatgtgggcaaatgtgatt	395970	-	-
46150	AF311304	NM_031214.1	75	tggggagtgaggcaaatgttga	395969	-	see also 46149 line
46151	AF311304	NM_031214.1	78	ggggatgtgggcaaatgttga	395971	-	see also 46149 line
46152	AFAP	NM_021638.3	1701	agcgggagcagcagctcattatga	380971	-	see also 20417 line
46153	AFAP	NM_021638.3	1635	atgaacagcgcgtgttatctgc	380968	-	see also 20417 line
46154	AGR2	NM_006408.2	298	tgccacacagctcaagcttttaa	335404	-	see also 20418 line
46155	AGR2	NM_006408.2	492	ttcaaatgtctctatgtcttacg	335409	-	see also 20418 line
46156	AGTRAP	NM_020350.3	206	atcgagcccaataagcaattct	376820	-	see also 20419 line
46157	AGTRAP	NM_020350.3	202	ctccatcgagcccaataagcatgt	376819	-	see also 20419 line
46158	AH11	NM_017651.3	3638	aggagcgatccctcttthaagc	360245	-	see also 7078 line
46159	AH11	NM_017651.3	2166	cagccgggagtgatataccaatta	360185	-	see also 7078 line
46160	AHSA1	NM_012111.1	1124	tggtctatggcgacgcgttatitt	337519	-	see also 5140 line
46161	AIG1	NM_016108.2	475	ggagacaatggcaccatcagatc	356282	-	see also 20422 line
46162	AIG1	NM_016108.2	639	ttgggtatacaaacattcttaag	356284	-	see also 20422 line
46163	AIM1L	NM_017977.1	645	ctcccggagcctcgagggaatcc	365018	-	see also 20423 line
46164	AIM1L	NM_017977.1	849	ggcgtgaaagtgttaagtaacc	365021	-	see also 20423 line
46165	AK7	NM_152327.1	1400	aggtcaactagacgatcaatata	415656	-	see also 20424 line
46166	AK7	NM_152327.1	132	agcggaaacatcgggaatttt	415620	-	see also 20424 line
46167	AKNA	NM_030767.2	2319	ccctgccattggcaggaattg	394901	-	see also 20425 line
46168	AKNA	NM_030767.2	977	gtccgagatgccacagataga	394894	-	see also 20425 line
46169	AKR1C1.2	NM_031436.2	946	aacacagcagatattggataaca	396964	-	see also 20426 line
46170	AKR1C1.2	NM_031436.2	357	aggccttgagctgaactttg	396961	-	see also 20426 line
46171	ALEX1	NM_016608.1	777	aggacccctgcaccgagtttaac	358390	-	see also 20427 line
46172	ALEX1	NM_016608.1	1107	ttggatgtgtcccaattttgc	358398	-	see also 20427 line

図46 (続き)

1232

46173	ALEX2	NM_014782.3	624	ggctaagagccggattccaaatc	343401	-	see also 5963 line
46174	ALEX3	NM_016607.2	1026	ctcccaattgtcgaaagattct	358366	-	see also 20429 line
46175	ALEX3	NM_016607.2	1123	agcgcagcttaaaagtataatg	358375	-	see also 20429 line
46176	ALEX3	NM_016607.2	1120	atcagcgagcggctaaagtatac	358374	-	see also 20429 line
46177	ALG10	NM_032834.1	209	gacagacttccacctataaagg	401870	-	see also 20430 line
46178	ALG10	NM_032834.1	856	caaatccagacttaatttgaac	401883	-	see also 20430 line
46179	ALLC	NM_018436.2	855	ctggaccggcccaaatattaga	371501	-	see also 20431 line
46180	ALLC	NM_018436.2	574	ctgcttccggcccaactatttt	371490	-	see also 20431 line
46181	ALMS1	NM_015120.2	6958	ggcgttttcagagatatattaga	348340	-	see also 20432 line
46182	ALMS1	NM_015120.2	7384	tgcctgtgggacagtaattacc	348359	-	see also 20432 line
46183	ALS2CR17	NM_198945.1	2028	ctcggcggttaaaatttaagaag	440071	-	see also 10350 line
46184	ALS2CR17	NM_198945.1	2026	atctcgggttacaatttaaga	440070	-	see also 10350 line
46185	ALS2CR19	NM_057177.3	1623	tgtgtcgtcgggaatgaatgacc	406151	-	see also 20434 line
46186	ALS2CR19	NM_057177.3	3061	ccgcagatcctctagactatct	406179	-	see also 20434 line
46187	ALS2CR4	NM_152388.1	383	tcacattagtctcctaagaataa	416122	-	see also 20435 line
46188	ALS2CR4	NM_152388.1	1184	atcagtagcaatccgaattttt	416146	-	see also 20435 line
46189	AMACO	NM_198496.1	482	ttctgttagatgggtctaacagc	438598	-	see also 20436 line
46190	AMACO	NM_198496.1	505	gtcgggaagggagccttgaaga	438599	-	see also 20436 line
46191	AMACO	NM_198496.1	1653	ggcacgtagagtggtgtttgc	438603	-	see also 20436 line
46192	AMICA	NM_153206.1	736	ggctgaccagggaacatatact	422107	-	see also 20437 line
46193	AMICA	NM_153206.1	609	aggacgaatatgtctatactat	422104	-	see also 20437 line
46194	AMOT	NM_133265.1	1269	accaaaagacacacatcgaaatc	407177	-	see also 20438 line
46195	AMOT	NM_133265.1	2674	tggacacatctgttgtctatc	407188	-	see also 20438 line
46196	AMOTL1	NM_130847.1	777	ggcgggtggccatgttactaca	407067	-	see also 20439 line
46197	AMOTL1	NM_130847.1	1536	tgcgcacaagctccacaagtgtg	407076	-	see also 20439 line
46198	AMOTL2	NM_016201.2	1447	aagacttaaacoggagcttaga	356550	-	see also 20440 line
46199	AMOTL2	NM_016201.2	1449	gacttcaaccggagcttagaga	356551	-	see also 20440 line
46200	AMSH-LP	NM_020799.1	984	tgcgggaccagactatttgtaca	379068	-	see also 20441 line
46201	AMSH-LP	NM_020799.1	824	aaggactggcagtgtagtttg	379065	-	see also 20441 line
46202	ANAPC1	NM_022662.1	4897	aacgggtggtgaatgaactatg	383663	-	see also 8427 line
46203	ANAPC1	NM_022662.1	4600	gcgtgtcgaaggagattgaatt	383655	-	see also 8427 line
46204	ANC_2H01	NM_016331.1	480	ctctacaccttctcgtattca	357036	-	see also 6814 line
46205	ANGPTL5	NM_178127.2	692	tacggactttcagtagttaaca	430492	-	see also 20444 line
46206	ANGPTL5	NM_178127.2	1605	aacgagtggtctagcaaatct	430521	-	see also 20444 line
46207	ANGPTL6	NM_031917.2	1028	gcgtcaactgtgtcagtagtg	397296	-	see also 20445 line
46208	ANGPTL6	NM_031917.2	1393	agggaccggagactcctattctgg	397301	-	see also 20445 line
46209	ANKMY1	NM_016552.1	1540	gaggacgttggaacaacaga	358101	-	see also 20446 line
46210	ANKMY1	NM_016552.1	1101	ctggcaaacacattgtcaacc	358097	-	see also 20446 line
46211	ANKRD10	NM_017664.1	940	tcgatatgaatacattgacaaa	360473	-	see also 20447 line
46212	ANKRD10	NM_017664.1	579	ggctcacgtcgacctgagaatg	360463	-	see also 20447 line
46213	ANKRD13	NM_033121.1	715	tgcacaaactgcgcgtcgatca	403383	-	see also 20448 line
46214	ANKRD13	NM_033121.1	720	aactcgcgtcgatcacattg	403384	-	see also 20448 line
46215	ANKRD15	NM_015158.1	3483	gccatgtgggggactacatagc	348692	-	see also 20449 line
46216	ANKRD15	NM_015158.1	1485	aagatctatcgcctagaagta	348665	-	see also 20449 line

図46 (続き)

1233

46217	ANKRD6	NM_014942.1	708	tgtcgcgcctataatcaacttgt	346233	-	see also 6130 line
46218	ANKRD6	NM_014942.1	703	caactgtctgcgcgtataatca	346232	-	see also 6130 line
46219	ANKS1	NM_015245.1	1869	ggcgcctgcaccctgaacttgg	350260	-	see also 6287 line
46220	ANP32B	NM_006401.1	280	tggacaattgcaaatcaaatga	335385	-	see also 20451 line
46221	ANP32C	NM_012403.1	450	ggcccttactcagataggagg	338136	-	see also 20452 line
46222	ANP32C	NM_012403.1	193	ttgagaagcttgacttaagagt	338135	-	see also 20452 line
46223	ANP32D	NM_012404.2	225	agcctcagtgccctgagaagt	338137	-	-
46224	APBB2	NM_173075.1	2505	ggcgcctgactgttactatata	424496	-	see also 20453 line
46225	APBB2	NM_173075.1	2510	ctgcattgactgataatgaagt	424498	-	see also 20453 line
46226	APCDD1	NM_153000.3	454	ctcacttaggtcttagagaaa	421767	-	see also 20454 line
46227	APCDD1	NM_153000.3	1612	cggagctacagatctcaaaatg	421781	-	see also 20454 line
46228	APG10L	NM_031482.3	532	ggctcgaagtgttaaatatga	397186	-	see also 9038 line
46229	APG10L	NM_031482.3	332	cacaacagataggtgtagttgg	397178	-	see also 9038 line
46230	APG16L	NM_017974.2	1633	ctccgtgactgctctaaagt	364959	-	see also 7186 line
46231	APG16L	NM_017974.2	1634	tcccgtagactgtctaaagt	364960	-	see also 7186 line
46232	APG3	NM_022488.3	467	aacggaagccgttaagagatca	383438	-	see also 8412 line
46233	APG3	NM_022488.3	739	accagactccacgattatggttg	383445	-	see also 8412 line
46234	APG4B	NM_013325.3	152	cagaaaaaggacgagatctgtct	338706	-	see also 5399 line
46235	APG4B	NM_013325.3	73	ctccggttgctgagtttgaaga	338705	-	see also 5399 line
46236	APH-1A	NM_016022.1	464	tgtctctctctggttatcatca	355908	-	see also 20458 line
46237	APH-1A	NM_016022.1	797	tggagggtccctccgaagtcttc	355913	-	see also 20458 line
46238	POBEC3	NM_152426.1	226	atocaggagcagaggtgtatttc	416624	-	see also 20459 line
46239	POBEC3	NM_145298.3	948	tgtctcacatggaggtgttaa	414265	-	see also 20460 line
46240	POBEC3	NM_145298.3	1275	gtggagatcatgggctacaaga	414266	-	see also 20460 line
46241	3Apr	NM_016085.2	826	aggcgcgaagaagccgaacttca	356256	-	see also 20461 line
46242	3Apr	NM_016085.2	344	tggcgtgtgctcctgaatcaga	356247	-	see also 20461 line
46243	APT X	NM_017692.2	831	accacgcattccgagtagcgc	360903	-	see also 20462 line
46244	APT X	NM_017692.2	841	tccgagtagagccatgtacatc	360904	-	see also 20462 line
46245	APT X	NM_017692.2	666	accaaaaggccgttaccattgg	360900	-	see also 20462 line
46246	APXL2	NM_133456.1	1585	ctgggactgcaaatgataacatc	407223	-	see also 20463 line
46247	APXL2	NM_133456.1	1583	catgggactgcaaatgataaaca	407222	-	see also 20463 line
46248	AGR	NM_014691.1	1669	ctctccgcttagaatcaactta	342257	-	see also 5891 line
46249	AGR	NM_014691.1	1481	ctcgtcatgaacgtcggaattct	342250	-	see also 5891 line
46250	ARCH	NM_178547.2	26	ggcgaagtgaagtgtctaatoc	431159	-	-
46251	ARCH	NM_178547.2	378	cccggaagtgaagttagcttagc	431160	-	see also 46250 line
46252	ARG99	NM_031920.2	456	aggttttagtcgctctgtgttc	397316	-	see also 20466 line
46253	ARG99	NM_031920.2	1391	tacaacactggccgatacagaaga	397338	-	see also 20466 line
46254	ARG99	NM_031920.2	323	tggcaggtctggcagtagtctct	397312	-	see also 20466 line
46255	ARH	NM_015627.1	300	gtgcacacgggggaattatctga	354624	-	see also 20467 line
46256	ARH	NM_015627.1	395	tgcacgacagaggtgttgcatoc	354625	-	see also 20467 line
46257	ARHGAP1	NM_014783.2	1808	cagttctacaccggtatcagttc	343437	-	see also 5965 line
46258	ARHGAP1	NM_014783.2	1701	aagcgtacattgccagtagattc	343428	-	see also 5965 line

1234

図46 (続き)

46259	ARHGAP1	NM_018287.4	1105	aggcgtgtgcttactataaca	369717	-	see also 7363 line
46260	ARHGAP1	NM_018287.4	1981	tagtagtaacaataatcagg	369751	-	see also 7363 line
46261	ARHGAP1	NM_018460.2	824	aagcgcaaaaatcgagttaaaa	371841	-	see also 7485 line
46262	ARHGAP1	NM_018460.2	816	tcgatacaagcgacaaaatcg	371840	-	see also 7485 line
46263	ARHGAP1	NM_018460.2	815	ttcgatacaagcgacaaaatc	371839	-	see also 7485 line
46264	ARHGAP1	NM_033515.2	1061	tcattgacagcgctattagaac	404078	-	see also 20471 line
46265	ARHGAP1	NM_033515.2	1107	atcgaaataccctgactttca	404082	-	see also 20471 line
46266	ARHGAP1	NM_032900.2	385	tcctctaataatgatttgctga	402482	-	see also 20472 line
46267	ARHGAP1	NM_032900.2	380	ctccctctctaataatgatt	402479	-	see also 20472 line
46268	ARHGAP9	NM_032496.1	1934	aaccggctgcgcaacaactaaa	400420	-	see also 20473 line
46269	ARHGAP9	NM_032496.1	1935	accgctgcgcaacaactaaa	400421	-	see also 20473 line
46270	ARHGEF15	NM_173728.2	1368	ggcgatgcaggagagattttc	427957	-	see also 20474 line
46271	ARHGEF15	NM_173728.2	1633	ctcggtatgtgagattatgtgc	427959	-	see also 20474 line
46272	ARHGEF15	NM_173728.2	2135	ctcatcactagcctaagagtg	427965	-	see also 20474 line
46273	ARHGEF16	NM_014448.2	1093	ccggccaacgfgctacatttc	340664	-	see also 20475 line
46274	ARHGEF16	NM_014448.2	1039	ggcgagagagctgttcttagtg	340660	-	see also 20475 line
46275	ARHGEF17	NM_014786.2	3493	atctattcgcctatatogataa	343544	-	see also 20476 line
46276	ARHGEF17	NM_014786.2	1258	gtgtaccgctccctagcttttg	343527	-	see also 20476 line
46277	ARHGEF9	NM_015185.1	1654	aacgaacgagcgcgacttttaga	349458	-	see also 20477 line
46278	ARHGEF9	NM_015185.1	1660	cgaagcgagcttagagaatat	349461	-	see also 20477 line
46279	ARHGEF9	NM_015185.1	1658	aacgaagcgagcttagagaat	349459	-	see also 20477 line
46280	ARLTS1	NM_138450.3	721	cacttcgctgcttaagatcaga	408244	-	see also 20478 line
46281	ARLTS1	NM_138450.3	719	tgcacttcgctgcttaagatca	408243	-	see also 20478 line
46282	ARMC2	NM_032131.3	2258	tgctgttttcggaatctctcc	398025	-	see also 20479 line
46283	ARMC2	NM_032131.3	1630	aagaaogtctgacccaatttgc	398010	-	see also 20479 line
46284	ARMET	NM_006010.1	368	cggcgagctgcgaagtgttatt	334572	-	see also 20480 line
46285	ARMET	NM_006010.1	499	gagaatcggttgctgctactatat	334580	-	see also 20480 line
46286	ARP10	NM_181773.2	587	agcgacggcttgagagataaag	433123	-	see also 20481 line
46287	ARP10	NM_181773.2	189	ggccacgagagcgctacttgaaa	433117	-	see also 20481 line
46288	ARPC5L	NM_030978.1	132	gacgaatttgacgagaaacaatt	395916	-	see also 8987 line
46289	ARV1	NM_022786.1	584	atctagctacggaactcttgc	384241	-	see also 20483 line
46290	ARV1	NM_022786.1	175	accacgggtgctgaagataacc	384226	-	see also 20483 line
46291	ASAH3	NM_133492.1	157	cagaagcgctcccgctacattta	407248	-	see also 20484 line
46292	ASAH3	NM_133492.1	163	cgctcccgctacatttactgtt	407250	-	see also 20484 line
46293	ASAM	NM_024769.1	881	tcaccaatctaggatgactaca	390338	-	see also 20485 line
46294	ASAM	NM_024769.1	880	ctocaaatctaggatgactaac	390337	-	see also 20485 line
46295	ASB12	NM_130388.2	140	ggcaggaggttacaacgttcc	406891	-	see also 9544 line
46296	ASB12	NM_130388.2	287	aggcagcagcgcaactttcaact	406894	-	see also 9544 line
46297	ASB7	NM_024708.2	970	cccgatgcagcgttgattga	399460	-	see also 20487 line
46298	ASB7	NM_024708.2	972	cgcattgcagcgttgattga	399462	-	see also 20487 line
46299	ASB7	NM_024708.2	1145	accgcttcagctcgccattatcc	399468	-	see also 20487 line
46300	ASC1p100	NM_032204.3	454	aagcgctccatcgaagtgttt	398649	-	see also 9095 line
46301	ASCL3	NM_020646.1	471	tgcgatcaagtcataaac	377851	-	see also 20488 line
46302	ASCL3	NM_020646.1	468	agctgcgatcaagtacataact	377849	-	see also 20488 line

図46 (続き)

1235

46303	ASF1B	NM_018154.1	595	ccgggtgaccgcgttcacatata	367776	-	see also 20489 line
46304	ASF1B	NM_018154.1	594	cccggtgaccgcgttcacatata	367775	-	see also 20489 line
46305	ASH2L	NM_004674.1	1133	ttgtatgaacgggtttgttagc	332729	-	see also 3208 line
46306	ASH2L	NM_004674.1	195	aggcaaaccttgctcgtatgaag	332704	-	see also 3208 line
46307	ASMTL	NM_004192.1	563	ccgtacacgggacgtttctgaac	332460	-	see also 20490 line
46308	ASMTL	NM_004192.1	109	gttgctccctccaagtttaaga	332457	-	see also 20490 line
46309	ASP	NM_031916.2	779	tacgctactaggccagataga	397287	-	see also 20491 line
46310	ASP	NM_031916.2	872	aacggcatgatggtcttcaga	397293	-	see also 20491 line
46311	ASPM	NM_018136.2	2270	ctgctgggttaggttaacaga	367262	-	see also 7271 line
46312	ASPM	NM_018136.2	2373	tagcggttaattgtcgaagaag	367266	-	see also 7271 line
46313	ASTN2	NM_014010.2	2691	accaaggtctccgactattct	339039	-	see also 5454 line
46314	ASTN2	NM_014010.2	2428	accgtgtgtgcccactttatcc	339037	-	see also 5454 line
46315	ASTN2	NM_018263.2	2885	ggccgaacggtctcacaagtcca	339041	-	see also 5454 line
46316	ASXL2	NM_018263.2	4265	aggcgcgcctcggaaatgttac	369509	-	see also 7348 line
46317	ASXL2	NM_018263.2	2658	agcaggtctctagtaagaatatac	369460	-	see also 7348 line
46318	ATCAY	NM_033064.1	390	cacgctccggtatggaacgtgg	402757	-	see also 20495 line
46319	ATCAY	NM_033064.1	1324	gactgctgctcgaatacgaaga	402767	-	see also 20495 line
46320	ATF7IP2	NM_024997.2	293	atgttccaagcggtaatacagagt	392828	-	see also 20496 line
46321	ATF7IP2	NM_024997.2	1136	agcaggagatctatagcataaat	392843	-	see also 20496 line
46322	ATOH7	NM_145178.2	624	cccgatgggcccaggataaaaag	413757	-	-
46323	ATOH7	NM_145178.2	628	gtgggcccaggataaaaagctgt	413758	-	see also 46322 line
46324	ATP9B	NM_198531.2	590	tactatgacacgggaagcaattg	439242	-	see also 10338 line
46325	ATP9B	NM_198531.2	631	agcgtgacaagggaagtaattca	439244	-	see also 10338 line
46326	ATP9B	NM_198531.2	349	agctgaaagctcgacacagtatgg	439238	-	see also 10338 line
46327	ATPAF1	NM_022745.1	905	acgggttagtgagacatttaac	383869	-	see also 20498 line
46328	ATPAF1	NM_022745.1	906	cgggttagtgagacatttaac	383870	-	see also 20498 line
46329	ATPAF2	NM_145691.2	535	atccgggacgcctggaagttct	414692	-	see also 20499 line
46330	ATPAF2	NM_145691.2	732	cagccacctggcatcttacaaca	414697	-	see also 20499 line
46331	AUTL1	NM_032852.2	1117	aacccgactacttagaattgt	402059	-	see also 20500 line
46332	AUTL1	NM_032852.2	1113	aaccaacacccgactacttagaat	402057	-	see also 20501 line
46333	AUTL2	NM_052936.2	1002	aacggttaatgaccagactttcc	405437	-	see also 20501 line
46334	AUTL2	NM_052936.2	275	ctcgtatggtttacacaga	405417	-	see also 20501 line
46335	AUTL2	NM_052936.2	715	gacaggcctccgacttttaac	405427	-	see also 20501 line
46336	AUTL4	NM_032885.4	920	cccgctggtggttagtttct	402435	-	see also 20502 line
46337	AUTL4	NM_032885.4	1131	accgagacactcacttacttcca	402437	-	see also 20502 line
46338	AUTL4	NM_032885.4	349	aagtacggttggttggttaaaag	402430	-	see also 20502 line
46339	AXOT	NM_022826.1	1091	ttcacagtcctgtagtaataag	384302	-	see also 8481 line
46340	AXOT	NM_022826.1	1921	ctgtacaccactgtgaacatgt	384319	-	see also 8481 line
46341	AZ2	NM_022461.1	661	tgcataatgagaggtttgcatgt	382959	-	see also 20504 line
46342	AZ2	NM_022461.1	593	aagctaattgctcgaattgaaga	382953	-	see also 20504 line
46343	B29	NM_031939.2	944	tgcagttctctacgcaataaa	397415	-	see also 9059 line
46344	B29	NM_031939.2	672	gagatactcggccttgtttgt	397410	-	see also 9059 line
46345	B3GTL	NM_194318.1	1475	aagttttcagaggaggatataa	436834	-	see also 20506 line
46346	B3GTL	NM_194318.1	1364	ctcatcaagttcccatatgttc	436831	-	see also 20506 line

1236

図46 (続き)

46347	B4GalNac- T3	NM_173593.2	1864	ttcgagtagctacacctgtgttga	426395	-	see also 20507 line
46348	B4GalNac- T3	NM_173593.2	2168	tgccggctctcggagtagtct	426401	-	see also 20507 line
46349	B7-H4	NM_024626.1	485	gggaatgctaaccttggatataa	388229	-	see also 20508 line
46350	B7-H4	NM_024626.1	442	tgctggcaactacaaatgtata	388226	-	see also 20508 line
46351	BAALC	NM_024812.1	547	gtcaccattatgttaacagatag	390960	-	see also 20509 line
46352	BAALC	NM_024812.1	588	aagtgaagaatcacaagaact	390962	-	see also 20509 line
46353	BAIAP3	NM_003933.3	3219	gacctgcacctgtatcagacg	332295	-	see also 20510 line
46354	BAIAP3	NM_003933.3	3118	ctggacccaacggcttaagtga	332293	-	see also 20510 line
46355	BARHL2	NM_020063.1	191	ctccctgttcggagatgatcc	375568	-	see also 20512 line
46356	BARHL2	NM_020063.1	975	tcacatgccttatttatcacc	375573	-	see also 20512 line
46357	BASE	NM_173859.1	557	tcgccacagcgcaaaattgttg	428523	-	see also 20513 line
46358	BASE	NM_173859.1	554	aactgccccacagcaaaatttg	428522	-	see also 20513 line
46359	BASE	NM_173859.1	560	cccacagcgcaaaattgtgttg	428525	-	see also 20513 line
46360	BAT2	NM_004638.2	3089	ggcttggaggagactattcgtat	332684	-	see also 3150 line
46361	BAT2	NM_004638.2	4519	agccgtcaaggagagtgtaactgc	332690	-	see also 3150 line
46362	BAT2	NM_004638.2	2412	tcacacgggtggatcacaagtgg	332678	-	see also 3150 line
46363	BBC3	NM_014417.2	785	ccctggagggtctctgtacaact	340560	-	see also 20515 line
46364	BBC3	NM_014417.2	785	gggggtctctgtacaactca	340560	-	see also 20515 line
46365	BBP	NM_032027.2	630	ggccatattctgcgaagtata	397649	-	see also 20516 line
46366	BBP	NM_032027.2	425	ggggcagagagtcgttaagtgc	397640	-	see also 20516 line
46367	BBS1	NM_024649.4	891	gggaactatccgggtacacagg	388507	-	see also 20517 line
46368	BBS1	NM_024649.4	1219	aagctacagcagctgtttgtaga	388512	-	see also 20517 line
46369	BBS4	NM_033028.2	50	gtcggacagagaaactcaattcc	402619	-	see also 20518 line
46370	BBS4	NM_033028.2	242	atctatgtccaagcattgtatt	402626	-	see also 20518 line
46371	BBS7	NM_018190.2	811	gaaggaaaacttgcgttatata	368258	-	see also 7309 line
46372	BBS7	NM_018190.2	802	gggacatcagacggaaaacttgc	368257	-	see also 7309 line
46373	BBS7	NM_018190.2	1473	ttctgagtgcaaacgacaaacttc	368282	-	see also 7309 line
46374	BC002942	NM_033200.1	1528	gaaggagatcgagttcattgata	403571	-	see also 20520 line
46375	BC002942	NM_033200.1	873	tgctgcagctcctgattatcatc	403569	-	see also 20520 line
46376	BC008967	NM_033201.1	475	ttggtgcacatccacagaaaaga	403573	-	see also 9378 line
46377	BCAS1	NM_003657.1	333	tgccgatgccaacgggaagaatc	331916	-	see also 2477 line
46378	BCL11A	NM_018014.2	418	atcgagacacaaacggaaacaatg	365299	-	see also 7199 line
46379	BCL11B	NM_022898.1	2202	ggcgtgcggcgaacttcattgaagg	384706	-	see also 8519 line
46380	BCL11B	NM_022898.1	2685	cggcgagcaacttgctgactaacg	384707	-	see also 8519 line
46381	BCL9L	NM_182557.1	1670	tccttcgagcttgctgattgct	434428	-	see also 20525 line
46382	BCL9L	NM_182557.1	1673	ctcgagttgctgattgcttca	434429	-	see also 20525 line
46383	BCMP11	NM_176813.3	507	ctcgagattaccctattgata	429707	-	see also 20526 line
46384	BCMP11	NM_176813.3	251	aagccattatgtgtattcatca	429694	-	see also 20526 line
46385	BCNP1	NM_173544.2	1199	ggcgctgagcagagatatgaagg	425771	-	see also 20527 line
46386	BCNP1	NM_173544.2	2210	ttcgccctaccacgaacaatga	425779	-	see also 20527 line
46387	BCNP1	NM_173544.2	603	gacttccagcgagaatatctcc	425767	-	see also 20527 line
46388	BETIL	NM_016526.3	236	gcccacgggtgcgtgtatcagt	358047	-	-

図46 (続き)

1237

46389	BET1L	NM_016526.3	313	tgcgggtgggtgtcgaatcacc	358048	-	see also 46388 line
46390	BEX1	NM_018476.2	279	cccttgatgctgtggaatact	372008	-	-
46391	BGALT15	NM_198540.1	1866	agcattgcctctggaaacaact	439314	-	see also 20529 line
46392	BGALT15	NM_198540.1	1424	ctgcccaccgtagttgtgtct	439310	-	see also 20529 line
46393	BHD	NM_144606.3	1327	tgtctccagccggagataactgg	410253	-	see also 9715 line
46394	BHD	NM_144606.3	766	tgcaggacacccgggatatatca	410246	-	see also 9715 line
46395	BHLHB5	NM_152414.2	966	ggcgcgtgcggcttaacatcaatg	416441	-	see also 20531 line
46396	BHLHB5	NM_152414.2	1322	cggagaagtcgcccctgtttaac	416442	-	see also 20531 line
46397	BIA2	NM_015431.2	1294	gactatgaagccggtagaatctc	352755	-	see also 20532 line
46398	BIA2	NM_015431.2	1269	tctcgtgcattgggtttct	352753	-	see also 20532 line
46399	BICC1	NM_025044.2	438	tgtatataccacacttatgattc	393207	-	see also 20533 line
46400	BICC1	NM_025044.2	1404	tggcagccctagcgttaacaaa	393233	-	see also 20533 line
46401	BITE	NM_024491.1	759	ttcctcataccgtcttgataga	386382	-	see also 20534 line
46402	BITE	NM_024491.1	471	aagaacaagagactaatgacttg	386372	-	see also 20534 line
46403	BIVM	NM_017693.2	909	accaggcgacctcaatctataaa	360914	-	see also 7114 line
46404	BIVM	NM_017693.2	911	caggcactcaatctataaaac	360915	-	see also 7114 line
46405	BIVM	NM_017693.2	1289	tgcataagccaccacagataaa	360930	-	see also 7114 line
46406	BLP1	NM_031940.2	57	gtgttgcctggttagttaacta	397418	-	see also 20536 line
46407	BLP1	NM_031940.2	61	ttgcgggttagttactacttc	397420	-	see also 20536 line
46408	BLP2	NM_025141.2	503	taogctctgtcttaagcataca	393970	-	see also 20537 line
46409	BLP2	NM_025141.2	124	tcaccacttatgtgatgaagtgt	393957	-	see also 20537 line
46410	BM-009	NM_016623.2	1186	aaggacacacctctactaatagt	358556	-	see also 6955 line
46411	BM-009	NM_016623.2	869	tggcaaatcgaatgcttctgtt	358545	-	see also 6955 line
46412	BM039	NM_018455.3	1180	acctactactgtgtgtactact	371787	-	see also 20538 line
46413	BM039	NM_018455.3	906	aggaagaagcgtcaagtatcagt	371782	-	see also 20538 line
46414	BM039	NM_018455.3	1295	ctccgacagagagagatcatatt	371788	-	see also 20538 line
46415	BMF	NM_033503.2	550	caccagcagaacacaaatctgt	404037	-	-
46416	BMF	NM_033503.2	364	gaggaaacccagcgactcttta	404036	-	see also 46415 line
46417	BNF1	NM_015424.3	1333	ctcgacttggtagatctacc	352624	-	see also 20539 line
46418	BNIP1	NM_138278.1	853	ggctggcgcgaggtgtgtatgtgg	407355	-	see also 20540 line
46419	BNIP1	NM_138278.1	1184	aagctggatacgtcagtgatcc	407361	-	see also 20540 line
46420	BOMB	NM_024949.3	1628	accagccgttagtagattctata	392585	-	see also 20541 line
46421	BOMB	NM_024949.3	1627	aaccagccgttagtagattctat	392584	-	see also 20541 line
46422	BR3BP	NM_080626.5	641	ttccatgtctgtgtgtacatcc	406510	-	see also 20543 line
46423	BR3BP	NM_080626.5	382	ttgtctggagtggtatgttc	406507	-	see also 20543 line
46424	BRX	NM_018321.2	281	tggatcgaagataagctattt	370307	-	see also 7404 line
46425	BRMS1L	NM_032352.2	905	tgttatatacgtggacaacaact	399909	-	see also 20545 line
46426	BRMS1L	NM_032352.2	614	gaggatagccacagcagattgat	399900	-	see also 20545 line
46427	BRN1	NM_015341.2	389	cagcgattacggaacattact	351716	-	see also 20546 line
46428	BRN1	NM_015341.2	587	tgccttcattcccgatgtatata	351723	-	see also 20546 line
46429	BSND	NM_057176.2	587	gccacatccagatgaagtcattg	406118	-	see also 20547 line
46430	BSND	NM_057176.2	494	ggctgtgtccgagatgaagagc	406117	-	see also 20547 line
46431	BT1A	NM_181780.1	755	aaccagcattgtttatgtcttc	433188	-	see also 20548 line
46432	BT1A	NM_181780.1	707	tgcaggaaagggtctgaagttgt	433187	-	see also 20548 line

図46 (続き)

1238

46433	BTN2A2	NM_006995.3	533	tgggttaagccctcattgaaa	336709	-	see also 20549 line
46434	BTN2A2	NM_006995.3	933	atctgttgcatcaagaactca	336711	-	see also 20549 line
46435	BTN2A3	NM_024018.1	743	tccctgcctgttatcgtattatt	385468	-	see also 20550 line
46436	BTN2A3	NM_024018.1	1199	gggcctgcctcccttaagtgg	385472	-	see also 20550 line
46437	BTN3A3	NM_006994.3	1913	cagcactgaagcactttactga	336708	-	see also 20551 line
46438	BTN3A3	NM_006994.3	1792	ccgggcttaagctaatgaagtgg	336705	-	see also 20551 line
46439	BTNL2	NM_019602.1	1132	cagccagatgctcttcagatgg	375445	-	see also 20552 line
46440	BTNL2	NM_019602.1	402	aaacagctgctgtccaaagttag	375441	-	see also 20552 line
46441	BVES	NM_007073.2	313	aggatgaccccttatatgtct	336892	-	see also 20553 line
46442	BVES	NM_007073.2	464	ggcatgtaccggcgatgtttga	336904	-	see also 20553 line
46443	BXMAS2-10	NM_145016.2	782	atcctctttataccggaattacc	412657	-	see also 20554 line
46444	BXMAS2-10	NM_145016.2	785	ctctttataccggaattaccaaa	412658	-	see also 20554 line
46445	10	NM_145016.2	653	gtcctgtcactactcaatgtaat	412652	-	see also 20554 line
46446	C10orf12	NM_015652.2	2755	cccggtctctagtcattggaag	354907	-	see also 20555 line
46447	C10orf12	NM_015652.2	3088	cagccagctaccggattcttaga	354915	-	see also 20555 line
46448	C10orf13	NM_152429.2	899	ggcactccctctgcactctttt	416677	-	-
46449	C10orf13	NM_152429.2	901	cactcctctgcactctttt	416678	-	see also 46448 line
46450	C10orf23	NM_152643.3	223	ctgacacttcacacagatctaca	419450	-	see also 20556 line
46451	C10orf23	NM_152643.3	1004	ctgattgcataatctgctatga	419454	-	see also 20556 line
46452	C10orf24	NM_152709.2	1152	cagtgagctgaaccttaaga	419967	-	see also 20557 line
46453	C10orf24	NM_152709.2	326	ctgacaatcccgacataagatcc	419942	-	see also 20557 line
46454	C10orf25	NM_145022.1	44	acccgaaagcgtgtgtgtttt	412799	-	see also 20558 line
46455	C10orf25	NM_145022.1	180	agcctccacacctagaactgc	412800	-	see also 20558 line
46456	C10orf27	NM_152710.1	1307	gtcaatcccggaagaaacgaag	420000	-	see also 20559 line
46457	C10orf27	NM_152710.1	519	ccagggattgtggtttcagac	419996	-	see also 20559 line
46458	C10orf27	NM_152710.1	1312	tcccgaagaaacgaagatc	420001	-	see also 20559 line
46459	C10orf28	NM_014472.2	1819	ggcattgacctgggttagtctgg	340783	-	see also 20560 line
46460	C10orf28	NM_014472.2	498	acggagagctcgaagactaata	340743	-	see also 20560 line
46461	C10orf29	NM_152586.2	3267	tccatacgtgtgtaacctatcc	418304	-	see also 20561 line
46462	C10orf29	NM_152586.2	3266	ttccatacgtgtgtaacctatcc	418303	-	see also 20561 line
46463	C10orf29	NM_152586.2	2305	tccacaggaagattacctaata	418278	-	see also 20561 line
46464	C10orf3	NM_018131.3	325	ggggatcgaagccttagtaactcc	367100	-	see also 20562 line
46465	C10orf3	NM_018131.3	1029	ggagttgaacgacaaaccataac	367129	-	see also 20562 line
46466	C10orf30	NM_152751.1	529	cagatggcaccggttagaac	420578	-	see also 20563 line
46467	C10orf30	NM_152751.1	1330	atgcgagcagtgatgaagact	420592	-	see also 20563 line
46468	C10orf32	NM_144591.1	107	caactgtgtgctgactgaatcg	410088	-	see also 20564 line
46469	C10orf32	NM_144591.1	213	gccatctgactcagaagatag	410089	-	see also 20564 line
46470	C10orf36	NM_194298.1	1256	ggcctagcctgtgtgcaattcc	436540	-	see also 20565 line
46471	C10orf36	NM_194298.1	1233	atgtgtacacttaacatcatg	436539	-	see also 20565 line
46472	C10orf39	NM_194303.1	98	ctggacgcagacggaagaaag	436673	-	see also 20566 line
46473	C10orf39	NM_194303.1	926	ctggctcagcagagaataaaga	436676	-	see also 20566 line

図46 (続き)

1239

46474	C10orf4	NM_145246.2	585	gagacttgctagagaataactatg	413843	-	see also 20567 line
46475	C10orf4	NM_145246.2	390	aaggtttatcatcactagctatgg	413835	-	see also 20567 line
46476	C10orf42	NM_138357.1	539	cagcaaacgctgaatgatgaag	407583	-	see also 20568 line
46477	C10orf42	NM_138357.1	496	cacgtacagacaccacaaagaga	407580	-	see also 20568 line
46478	C10orf45	NM_031453.2	493	ggcagtgcaatcggaattcaag	397064	-	see also 20569 line
46479	C10orf45	NM_031453.2	838	tcccggaaccatacaagattcca	397079	-	see also 20569 line
46480	C10orf45	NM_031453.2	762	ggcggagccagactacatagaag	397072	-	see also 20569 line
46481	C10orf46	NM_153810.2	942	ggactatatacccatatcctat	423908	-	see also 20570 line
46482	C10orf46	NM_153810.2	1005	agcactcggaacagatgtatagt	423913	-	see also 20570 line
46483	C10orf47	NM_153256.2	737	ctcgttatggcgagaaagatttc	422674	-	-
46484	C10orf47	NM_153256.2	270	ctcgtctcagaagattcactttg	422673	-	see also 46483 line
46485	C10orf5	NM_178816.2	142	aacttcccaaggtatcattata	431373	-	see also 20571 line
46486	C10orf5	NM_178816.2	183	cacaccacacctcaaatatatac	431375	-	see also 20571 line
46487	C10orf6	NM_018121.2	2131	agccggttctaatgtattcca	366896	-	see also 7265 line
46488	C10orf6	NM_018121.2	2123	gactaataaggccgattctaatg	366894	-	see also 7265 line
46489	C10orf8	NM_012071.1	134	gacgagccgtgttagatcatcc	337470	-	see also 5109 line
46490	C10orf8	NM_012071.1	130	ggcggaagagccggttagatc	337468	-	see also 5109 line
46491	C11orf10	NM_014206.1	191	tacactcgtgatatctataaga	339971	-	see also 20574 line
46492	C11orf16	NM_020643.1	838	atcactggcgcgcatacctaata	377829	-	see also 20575 line
46493	C11orf16	NM_020643.1	840	cactggcgcatcactaatgagc	377830	-	see also 20575 line
46494	C11orf16	NM_020643.1	1389	ctcgaagaacacacacatgaagc	377841	-	see also 20575 line
46495	C11orf23	NM_018312.2	1500	gaacactaacagagagatagtaac	370134	-	see also 7389 line
46496	C11orf24	NM_022338.1	1701	caccaggtggactacttaataca	382600	-	see also 20577 line
46497	C11orf24	NM_022338.1	1582	ccagcgtgactacttaataaac	382601	-	see also 20577 line
46498	C11orf30	NM_020193.2	322	cccaaacccgcttactgttaac	375951	-	see also 20577 line
46500	C11orf33	NM_017678.1	728	gagaggaacactcatatcacctaa	360572	-	see also 7794 line
46501	C11orf33	NM_017678.1	730	gaggaacactcatatcacctaatg	360573	-	see also 7108 line
46502	C11orf33	NM_017678.1	850	agcttctgtggatttgatagg	360575	-	see also 7108 line
46503	C11orf5	NM_014205.1	1077	ggcctggaccacacgaaatggagg	339969	-	-
46504	C11orf9	NM_013279.1	1091	ggcgacctgtacgtactgaact	338643	-	see also 20580 line
46505	C11orf9	NM_013279.1	1094	gaacctgtacgtactgaactaca	338644	-	see also 20580 line
46506	C11orf9	NM_013279.1	1837	tgcgctggtgactacacagatc	338655	-	see also 20580 line
46507	C12orf10	NM_021640.1	608	tgcacaggttctcgtactaatc	381008	-	see also 20581 line
46508	C12orf10	NM_021640.1	317	ccctcgagacacccgatagacc	381003	-	see also 20581 line
46509	C12orf22	NM_030809.1	598	ctctgaaggagactacactct	395261	-	see also 20582 line
46510	C12orf22	NM_030809.1	641	gggtgaacacatcgagagattct	395263	-	see also 20582 line
46511	C12orf4	NM_020374.2	1552	aaggagagcggaacttgtttca	377138	-	see also 7854 line
46512	C12orf4	NM_020374.2	1703	atcttcgagatcatcaacact	377145	-	see also 7854 line
46513	C12orf6	NM_020367.2	626	atggatcgcaaccgaataaag	376994	-	see also 7850 line
46514	C12orf6	NM_020367.2	1134	atcttgagactgtatagacttt	377012	-	see also 7850 line
46515	C13orf1	NM_020456.1	501	tacttatgaccatgtcgattaa	377668	-	see also 20584 line
46516	C13orf1	NM_020456.1	271	ggcagcgacctttacatcaaaa	377663	-	see also 20584 line
46517	C13orf1	NM_020456.1	273	caggcgacctttacatcaaaa	377664	-	see also 20584 line

図46 (続き)

1240

46518	C13orf12	NM_015932.2	290	gtctattgtctcgcgtataaatta	355502	-	see also 20585 line
46519	C13orf12	NM_015932.2	203	tgcttagtcatccctcgtgaatta	355499	-	see also 20585 line
46520	C13orf12	NM_015932.2	158	atgattctcttcggaaaggtttt	355498	-	see also 20585 line
46521	C13orf17	NM_018185.1	87	gcgagagaactgctctactcgc	368148	-	see also 20586 line
46522	C13orf17	NM_018185.1	265	tggagtcgctggggtccaagct	368152	-	see also 20586 line
46523	C13orf18	NM_025113.1	1583	ctcggtagctcgaataactagg	393715	-	see also 20587 line
46524	C13orf18	NM_025113.1	591	atggctcagtgaaaaagagtagc	393683	-	see also 20587 line
46525	C13orf3	NM_145061.2	505	tacatcgtatcccaagttctacc	413369	-	see also 9770 line
46526	C13orf3	NM_145061.2	983	aagatcgtactcgttggtttta	413390	-	see also 9770 line
46527	C13orf3	NM_145061.2	494	gaattgagcgttactcgtatcc	413368	-	see also 9770 line
46528	C13orf7	NM_024546.2	317	aagcatcttcggaaaaactagact	387013	-	see also 8637 line
46529	C13orf7	NM_024546.2	362	gagagacgaataagattgttaca	387020	-	see also 8637 line
46530	C13orf9	NM_016075.1	826	accgagctcgaggaaatggaattg	356200	-	see also 6652 line
46531	C13orf9	NM_016075.1	289	ctggccattccagagtagtagg	356185	-	see also 6652 line
46532	C14orf100	NM_016475.2	436	tctgctcagctcagtagtagg	357673	-	see also 6872 line
46533	C14orf100	NM_016475.2	437	tctgttcagctcagtagtagg	357674	-	see also 6872 line
46534	C14orf101	NM_017799.2	360	tgctaccgcgtcaactctctct	362609	-	see also 20592 line
46535	C14orf101	NM_017799.2	1022	tagcaacaaagtggaaogattct	362627	-	see also 20592 line
46536	C14orf103	NM_018036.4	1525	ctcggcttaaaagtattatagt	365632	-	see also 20593 line
46537	C14orf103	NM_018036.4	2826	gacagcctcagaccattataga	365668	-	see also 20593 line
46538	C14orf103	NM_018036.4	1518	cccaactctccgctaaaagta	365629	-	see also 20593 line
46539	C14orf104	NM_018139.1	1173	aacttaaacaggtcagtaataac	367582	-	see also 20594 line
46540	C14orf104	NM_018139.1	1239	aacaaaactacggttccaatat	367585	-	see also 20594 line
46541	C14orf105	NM_018168.1	459	gaattgccacgagtaattacttc	367887	-	see also 20595 line
46542	C14orf105	NM_018168.1	987	gagagaatcccaactcttcgtaga	367892	-	see also 20595 line
46543	C14orf108	NM_018229.2	755	tcacctcgtccgccaatttag	368724	-	see also 20596 line
46544	C14orf108	NM_018229.2	754	gtccctcgtccgccaactaatta	368723	-	see also 20596 line
46545	C14orf11	NM_018453.2	388	aagatactacgatatatatatt	371774	-	see also 20597 line
46546	C14orf11	NM_018453.2	232	atgttaccggagaaagtggaat	371771	-	see also 20597 line
46547	C14orf11	NM_015962.1	557	ttgaacggatgccagatgattat	355639	-	see also 20598 line
46548	C14orf12	NM_016468.3	111	tgctgcttttgcgaagaacaag	357615	-	see also 20599 line
46549	C14orf12	NM_016468.3	112	gcgtgcttttgcgaagaacaaga	357616	-	see also 20599 line
46550	C14orf12	NM_016468.3	274	atotttagagtcggaatatgaga	357620	-	see also 20599 line
46551	C14orf15	NM_018228.1	1005	agcgtacacgctcaccaaaaagc	368698	-	see also 20600 line
46552	C14orf15	NM_018228.1	1440	cacggctccatttattatattgg	368703	-	see also 20600 line
46553	C14orf15	NM_018228.1	2190	cccgctcacactactacatgtgg	368710	-	see also 20600 line
46554	C14orf16	NM_018589.2	428	ctgctcagctcgggtgctttatc	372275	-	see also 20601 line
46555	C14orf16	NM_018589.2	434	agctcgggtgctttatcatgaat	372278	-	see also 20601 line
46556	C14orf18	NM_017926.2	321	tgctcctcggtagcaaatatttag	364239	-	see also 20602 line
46557	C14orf18	NM_017926.2	627	ggccacggatgtgtgaatcagc	364249	-	see also 20602 line
46558	C14orf19	NM_017924.2	196	cccagcgtggaacgcttctcaga	364055	-	see also 7178 line
46559	C14orf19	NM_017924.2	96	ctcagtaacacacatactaaccc	364053	-	see also 7178 line
46560	C14orf19	NM_016472.2	314	tgcggatgatgtggcctatatca	357637	-	see also 20604 line
46561	C14orf19	NM_016472.2	546	tggacagtcactacactttt	357641	-	see also 20604 line

図46 (続き)

1241

46562	C14orf132	NM_020215.1	157	ttccctttccatgaatacaag	376240	-	see also 20605 line
46563	C14orf132	NM_020215.1	440	gcctgacccgcaagacaaatg	376241	-	see also 20605 line
46564	C14orf133	NM_022067.2	1558	ttccatgggtgtcgaaatttg	382010	-	see also 8260 line
46565	C14orf133	NM_022067.2	1557	ttccatgggtgtcgaaatttg	382009	-	see also 8260 line
46566	C14orf135	NM_022495.2	1271	cccttgaggatccgatttttc	383542	-	see also 20607 line
46567	C14orf135	NM_022495.2	1270	ttccctgggatatccgatttt	383541	-	see also 20607 line
46568	C14orf138	NM_024558.1	421	ttccaccgactcactacgagg	387263	-	see also 20608 line
46569	C14orf138	NM_024558.1	420	ctccaccgactcactacgagg	387262	-	see also 20608 line
46570	C14orf139	NM_024633.2	764	cccgagcgcctgcaatatgg	388344	-	see also 20609 line
46571	C14orf139	NM_024633.2	761	ttcccccgcgcctgcaatatgg	388343	-	see also 20609 line
46572	C14orf140	NM_024643.1	167	ggcgttatgtccacataatgc	388460	-	see also 20610 line
46573	C14orf140	NM_024643.1	168	ggcgttatgtccacataatgc	388461	-	see also 20610 line
46574	C14orf141	NM_032035.1	828	accttgagatatgtatgcatt	397675	-	see also 20611 line
46575	C14orf141	NM_032035.1	823	tgcacaccttgagatatgtatg	397674	-	see also 20611 line
46576	C14orf142	NM_032490.2	510	ctgtttctagcaaatagtagtaa	400392	-	see also 20612 line
46577	C14orf142	NM_032490.2	409	tgttcacactaggacatttaagg	400387	-	see also 20612 line
46578	C14orf147	NM_138288.1	131	tggagcggagcgtgttcaatgc	407446	-	see also 9592 line
46579	C14orf147	NM_138288.1	132	gggagggagcgtgttcaatgc	407447	-	see also 9592 line
46580	C14orf160	NM_024884.1	85	ggcagcgtcggttatgttggtg	391654	-	see also 20614 line
46581	C14orf160	NM_024884.1	607	ggcatttggagggtgttaattgg	391665	-	see also 20614 line
46582	C14orf161	NM_024764.1	1567	atggaggtgtcccttgcacatct	390269	-	see also 20614 line
46583	C14orf161	NM_024764.1	459	tggcaacatacagactctaaagg	390237	-	see also 8741 line
46584	C14orf162	NM_020181.1	231	ggcagcccaaatatgcacaaa	375829	-	see also 20616 line
46585	C14orf162	NM_020181.1	188	cgccggaggccctccagagaaca	375826	-	see also 20616 line
46586	C14orf162	NM_020181.1	226	gtcaagccagcccaaatgatcc	375828	-	see also 20616 line
46587	C14orf166	NM_016039.1	385	atgcacaaagaatgatgaactgg	356077	-	see also 20617 line
46588	C14orf166	NM_016039.1	621	aaggcaattcggattttgttca	356081	-	see also 20617 line
46589	C14orf168	NM_031427.1	333	ctgtgagatcctcacaattttat	390944	-	see also 20618 line
46590	C14orf168	NM_031427.1	308	ggcagtaggggacacattagaag	390942	-	see also 20618 line
46591	C14orf169	NM_024644.1	1467	ttccgcgaagaacgcgtttcattg	388488	-	see also 8676 line
46592	C14orf169	NM_024644.1	783	taaccgtgacctggattcgtatgc	388480	-	see also 8676 line
46593	C14orf24	NM_173607.2	330	ctgttgatcgcacaaaattacc	426483	-	see also 20620 line
46594	C14orf24	NM_173607.2	352	ctggggtccctactattgtttt	426484	-	see also 20620 line
46595	C14orf29	NM_181533.3	635	tgggttgaagtatcaattatcc	432397	-	see also 20621 line
46596	C14orf29	NM_181533.3	868	gagggtcaagatgggttatcttc	432400	-	see also 20621 line
46597	C14orf32	NM_144578.2	601	ggcagtatcctacccctaatatg	409919	-	see also 20622 line
46598	C14orf32	NM_144578.2	774	ctctatcctaccgaataatcc	409923	-	see also 20622 line
46599	C14orf34	NM_017949.1	901	tggattacgacatcactcgaatgc	364657	-	see also 20623 line
46600	C14orf34	NM_017949.1	1501	ggatogattgaatacgaatcc	364662	-	see also 20623 line
46601	C14orf39	NM_174978.1	1441	ccccgttgaataatacagaat	428878	-	see also 10136 line
46602	C14orf39	NM_174978.1	488	aacacccctttcacgtaatt	428845	-	see also 10136 line
46603	C14orf39	NM_174978.1	1191	tgtgtggaaaaaggagataaaga	428868	-	see also 10136 line
46604	C14orf45	NM_025057.1	690	gtgtgtgtacacactattccaaa	393358	-	see also 20625 line
46605	C14orf45	NM_025057.1	307	tagcacaagctgctttcaatta	393350	-	see also 20625 line

図46 (続き)

1242

46606	C14orf48	NM_152777.2	751	gagaccacacagggtctctatgc	421068	-	see also 20626 line
46607	C14orf48	NM_152777.2	533	aagtcagagaagcacaagctttt	421065	-	see also 20626 line
46608	C14orf49	NM_152592.2	2385	tcgacgcgcaaatctctcagg	418519	-	see also 20627 line
46609	C14orf49	NM_152592.2	2720	ggagcgcagatgattccaaag	418523	-	see also 20627 line
46610	C14orf50	NM_172365.1	1031	tgggtctccagtcattgtact	424438	-	see also 20628 line
46611	C14orf50	NM_172365.1	890	gactcttctaccatattgttc	424429	-	see also 20628 line
46612	C14orf54	NM_173526.1	820	gtctctcaggaattacgaatgc	425489	-	see also 20629 line
46613	C14orf54	NM_173526.1	462	gtgacgcgtggtctgttttc	425479	-	see also 20629 line
46614	C14orf58	NM_017791.1	1452	gacacccctgtagtatataca	362432	-	see also 7154 line
46615	C14orf58	NM_017791.1	1606	gagctcagtcaccagaatcaga	362438	-	see also 7154 line
46616	C14orf59	NM_174976.1	520	ggcaccaccatctgttttc	428826	-	see also 20631 line
46617	C14orf59	NM_152333.1	649	gccagctcgggtctacttc	415694	-	-
46618	C14orf8	NM_173846.3	390	accactggcgtactaaagaac	428477	-	see also 20632 line
46619	C14orf8	NM_173846.3	261	gccgaaccatcacgttttaaca	428472	-	see also 20632 line
46620	C14orf9	NM_144568.1	379	gtgggggtgccctatgacacc	409751	-	see also 20633 line
46621	C14orf9	NM_144568.1	441	atgcatcagcatgtagcaaatg	409753	-	see also 20633 line
46622	C14orf93	NM_021944.1	1313	cagcgcgaagcgggattctgtac	381515	-	see also 8207 line
46623	C14orf93	NM_021944.1	1624	ttgccaacccatccagatcatg	381525	-	see also 8207 line
46624	C14orf94	NM_017815.1	416	aggaagtgcagtcgataagaca	362675	-	see also 20635 line
46625	C14orf94	NM_017815.1	1026	cgggtgatgattccttaagctga	362682	-	see also 20635 line
46626	C15orf16	NM_130901.1	561	gagcgtgtacagcggagattca	407136	-	see also 20636 line
46627	C15orf16	NM_130901.1	264	agccgctctgagcgactatgagc	407132	-	see also 20636 line
46628	C15orf5	NM_030944.1	602	aaccctctccatcacaaatga	395655	-	see also 20637 line
46629	C15orf5	NM_030944.1	356	tagggagctacttaaaatttg	395650	-	see also 20637 line
46630	C16orf33	NM_024571.1	1073	ctcccaaatagccctagaatcacg	387364	-	-
46631	C16orf34	NM_144570.1	96	gaggagaatcgagcaactctttt	409762	-	see also 20638 line
46632	C16orf34	NM_144570.1	142	ttccagcagcctaatagatgg	409764	-	see also 20638 line
46633	C16orf34	NM_144570.1	97	aggagaatcgagaatcttttg	409763	-	see also 20638 line
46634	C17orf28	NM_030630.1	2343	tacatgtggcggtcatctatct	394730	-	see also 20639 line
46635	C17orf28	NM_030630.1	185	cacctgggtgcaggatgtgttg	394718	-	see also 20639 line
46636	C17orf31	NM_017575.3	382	gacaagaggatagtagtaaaa	359231	-	see also 20640 line
46637	C17orf31	NM_017575.3	451	gacgacgtttgcagactgttagc	359238	-	see also 20640 line
46638	C17orf31	NM_017575.3	2350	agcttgacgctgtctattactat	359283	-	see also 20640 line
46639	C19orf10	NM_019107.1	335	cccaggggaagtcctatctgac	375236	-	see also 20641 line
46640	C19orf10	NM_019107.1	400	tacgcatggcctactctaaagc	375237	-	see also 20641 line
46641	C19orf6	NM_033420.2	253	tcacacgcgtgtttttaaagatg	403869	-	see also 20642 line
46642	C19orf6	NM_033420.2	1211	ggccatcatgtggagttcttca	403874	-	see also 20642 line
46643	C1orf14	NM_030933.1	1172	tgtctctatgcacaaagtttta	395552	-	see also 20643 line
46644	C1orf14	NM_030933.1	1174	gtctatgcacaaagttttaaa	395553	-	see also 20643 line
46645	C1orf16	NM_014837.2	306	tcggaataggatgaagtcagg	344387	-	see also 20644 line
46646	C1orf16	NM_014837.2	1429	cagcaacgctgtatctctatagg	344420	-	see also 20644 line
46647	C1orf19	NM_052965.1	485	gtctgattctacaatgctatt	405571	-	see also 20645 line
46648	C1orf19	NM_052965.1	487	ctgattctacaatgctatt	405572	-	see also 20645 line
46649	C1orf21	NM_030806.2	807	ctgttcggagaagaggtatata	395223	-	see also 8952 line

1243

図46 (続き)

46650	C1orf21	NM_030806.2	487	aagcatgttgcacgtgttcaaaa	395214	-	see also 8952 line
46651	C1orf26	NM_017673.4	2838	atgttgagaccctctataacttc	360559	-	see also 7104 line
46652	C1orf26	NM_017673.4	2847	gacatctcaactatagatagata	360570	-	see also 7104 line
46653	C1orf27	NM_017847.2	513	ttgttgaaactatgatctcatg	363040	-	see also 7161 line
46654	C1orf27	NM_017847.2	388	gcctctcgtagactaatgtttgc	363038	-	see also 7161 line
46655	C1orf28	NM_024529.3	1240	ctgaacacaccattatcataatt	387755	-	see also 8627 line
46656	C1orf28	NM_024529.3	473	agcgtcaacatcggaagtag	386723	-	see also 8627 line
46657	C1orf29	NM_006820.1	458	ctgtgtgtgtgttatcgaaac	336381	-	see also 20650 line
46658	C1orf29	NM_006820.1	839	acagagcggtagatattatc	336390	-	see also 20650 line
46659	C1orf29	NM_006820.1	838	aaccgagcggtagatattatc	336389	-	see also 20650 line
46660	C1orf35	NM_024319.2	126	gcggcgagcagccacgttcaactgg	389250	-	see also 20651 line
46661	C1orf36	NM_183059.1	1302	gcgcagcaatcgagtcagaaagg	435577	-	see also 20652 line
46662	C1orf9	NM_014283.2	3308	tgcagcgtgttcgaaatactct	340108	-	see also 5590 line
46663	C1orf9	NM_014283.2	3310	cagcgtgttcgaaatactctca	340109	-	see also 5590 line
46664	C1QDC1	NM_023925.2	3393	tgtgtccacgagcaaatcgaga	385383	-	see also 20655 line
46665	C1QDC1	NM_023925.2	1095	cccaagcgtatgagacctatt	385329	-	see also 20655 line
46666	C1QTNF1	NM_030968.2	601	cgccgtgcccagatcaaatca	395896	-	see also 20656 line
46667	C1QTNF1	NM_030968.2	606	tgcgccagatcaacatcactatc	395897	-	see also 20656 line
46668	C1QTNF1	NM_030968.2	609	cccaagatcaacatcactattg	395898	-	see also 20656 line
46669	C1QTNF2	NM_031908.3	686	gcggcgtgctggagactactac	397249	-	see also 20657 line
46670	C1QTNF2	NM_031908.3	923	gcctctttacgggtctcctaact	397251	-	see also 20657 line
46671	C1QTNF5	NM_015645.1	678	cggcgccagcctgcagttgatct	354859	-	see also 20658 line
46672	C1QTNF6	NM_031910.3	689	gacgtacgtgcacattatgata	397259	-	see also 20659 line
46673	C1QTNF6	NM_031910.3	685	aggagagcgtacgtgcacattatg	397258	-	see also 20659 line
46674	C1QTNF7	NM_031911.3	1032	ctcggggttttctttatcgtttg	397276	-	see also 9051 line
46675	C1QTNF7	NM_031911.3	1033	tcggggttttctttatcgtttga	397277	-	see also 9051 line
46676	C2orf102	NM_080607.1	523	gtgggctctgaaacagctaaag	406401	-	-
46677	C2orf102	NM_080607.1	524	tgggctctgaaacagctaaagc	406402	-	see also 46676 line
46678	C2orf102	NM_080607.1	376	cacagagacaccccatgacatga	406400	-	see also 46676 line
46679	C2orf108	NM_080821.1	348	tgcacattgggaatctcattaatt	406784	-	see also 20661 line
46680	C2orf108	NM_080821.1	347	tgcacattgggaatctcattaatt	406783	-	see also 20661 line
46681	C2orf110	NM_021202.1	971	gcggtgcagcgcagcttaact	380752	-	see also 8137 line
46682	C2orf111	NM_016470.6	539	cttactttctctgatgctaact	357627	-	see also 6868 line
46683	C2orf111	NM_016470.6	367	agcgtgctgcagcttctaactct	357626	-	see also 6868 line
46684	C2orf111	NM_016470.6	695	atcagtttcaagcgaacacagg	357632	-	see also 6868 line
46685	C2orf112	NM_080616.1	401	ggctgcggagcgcgtcaaatatc	406447	-	see also 20663 line
46686	C2orf112	NM_080616.1	786	gtcctgcgcgtgcagtagaaga	406448	-	see also 20663 line
46687	C2orf116	NM_023935.1	790	gactataacagcgtgtgattgacg	385439	-	see also 20664 line
46688	C2orf116	NM_023935.1	741	tacgcactcaagcagaccataaat	385435	-	see also 20664 line
46689	C2orf116	NM_023935.1	55	ggctctgctatgcgctttatcc	385432	-	see also 20664 line
46690	C2orf12	NM_018152.2	2217	aggacccaactcgcctaaactagg	367770	-	see also 20665 line
46691	C2orf12	NM_018152.2	1727	cagagtacatcagatactattga	367763	-	see also 20665 line
46692	C2orf126	NM_030815.2	391	tgcgggaagcaactaaagtgaag	395291	-	see also 20666 line
46693	C2orf126	NM_030815.2	477	aaccaggtatgagcttaagctct	395297	-	see also 20666 line

図46 (続き)

1244

46694	C20orf126	NM_030815.2	213	gacctgacactaaaggaatca	395288	-	see also 20666 line
46695	C20orf128	NM_178468.1	1951	cccaatggtotccgatacaag	430826	-	see also 20667 line
46696	C20orf128	NM_178468.1	2219	agctcgaagccctttgagtc	430829	-	see also 20667 line
46697	C20orf129	NM_030919.1	83	cggagactgcacgcgggtttgt	395439	-	see also 20668 line
46698	C20orf129	NM_030919.1	891	tggcaacagagctcctacagttt	395453	-	see also 20668 line
46699	C20orf132	NM_152503.1	150	ctctcagcggcgactagtaacc	417246	-	see also 20669 line
46700	C20orf132	NM_152503.1	1326	tgcgcgtaaatcttctacaact	417268	-	see also 20669 line
46701	C20orf133	NM_080676.2	195	ttccctgaacagcactctatca	406667	-	see also 20670 line
46702	C20orf133	NM_080676.2	230	atgaagggaagggcccaaatga	406668	-	see also 20670 line
46703	C20orf136	NM_080621.2	296	accactatggcctgtaccatca	406498	-	-
46704	C20orf136	NM_080621.2	590	aagcttccttcgggaaatgtcc	406499	-	see also 46703 line
46705	C20orf140	NM_144628.1	794	caggcaactcgtcggttatatg	410536	-	see also 9720 line
46706	C20orf140	NM_144628.1	799	acgtcgtgcggttatgacttc	410538	-	see also 9720 line
46707	C20orf144	NM_080825.2	209	cgtctggcgacggactgactacg	406789	-	-
46708	C20orf144	NM_080825.2	158	taccagagatcgtctgacttcc	406788	-	see also 46707 line
46709	C20orf151	NM_080833.1	685	gggctctacggggagaaagc	406816	-	-
46710	C20orf151	NM_080833.1	721	gacatctcagtgcccaaatct	406817	-	see also 46709 line
46711	C20orf152	NM_080834.1	569	gtccagagcgtgtgatacaag	406831	-	see also 20673 line
46712	C20orf152	NM_080834.1	845	atgctcagatcgggttgattt	406839	-	see also 20673 line
46713	C20orf158	NM_152302.1	2069	gaccccttcgacttcaactcc	415444	-	see also 20674 line
46714	C20orf158	NM_152302.1	1904	aggccaagcgcctaactttgc	415439	-	see also 20674 line
46715	C20orf160	NM_080625.2	363	ctcacctggcgacaaatgaaga	406501	-	see also 20675 line
46716	C20orf160	NM_080625.2	991	acggggcaccagatattgagtg	406504	-	see also 20675 line
46717	C20orf166	NM_178463.1	653	aacagctgcgggaaagttcagc	430801	-	-
46718	C20orf172	NM_024918.2	636	gagctcagccggtctctatagtg	392140	-	see also 20676 line
46719	C20orf172	NM_024918.2	1305	cagaaaccaccctgccatactgg	392159	-	see also 20676 line
46720	C20orf173	NM_080828.1	493	ctctcgtgagccatttgattt	406798	-	see also 20677 line
46721	C20orf173	NM_080828.1	490	aggctcgtgagccatttga	406797	-	see also 20677 line
46722	C20orf175	NM_080829.1	1257	gtggaaccctgttgatactaga	406810	-	see also 20678 line
46723	C20orf175	NM_080829.1	1253	tgcagtggaaccctgttgatact	406808	-	see also 20678 line
46724	C20orf185	NM_182658.1	87	cacgctcgtcgtgagttgacaagg	434856	-	see also 20679 line
46725	C20orf185	NM_182658.1	1258	gaaggatcgtgttagaagaatg	434866	-	see also 20679 line
46726	C20orf185	NM_182658.1	669	ggctcttgggtccgttgaaattct	434859	-	see also 20679 line
46727	C20orf186	NM_182519.1	1661	tcctcaacatcactttgacaat	434085	-	see also 20680 line
46728	C20orf186	NM_182519.1	817	cccaatctcgtgacaatttagt	434080	-	see also 20680 line
46729	C20orf19	NM_018474.2	474	cagtgacagaggggaaactca	371961	-	see also 20681 line
46730	C20orf19	NM_018474.2	890	ttcccggtacgggaaagatttag	371976	-	see also 20681 line
46731	C20orf20	NM_018270.3	193	accgacacttcacatgattgt	369602	-	see also 20682 line
46732	C20orf20	NM_018270.3	192	aaccagacacttcacatgatttg	369601	-	see also 20682 line
46733	C20orf20	NM_018270.3	453	ggggctgacgatgttttttcac	369604	-	see also 20682 line
46734	C20orf21	NM_017798.2	1277	gggttgcgccacacagagaac	362598	-	see also 7155 line
46735	C20orf21	NM_017798.2	570	cagtaacagagacacatatttta	362592	-	see also 7155 line
46736	C20orf24	NM_018840.1	360	tggggaggttttgccattacagag	372964	-	see also 20684 line
46737	C20orf24	NM_018840.1	438	ttcagaattacacacagattga	372966	-	see also 20684 line

1245

図46 (続き)

46738	C20orf28	NM_015417.2	544	ggtaagtgccctttccatt	352365	-	see also 20685 line
46739	C20orf28	NM_015417.2	325	cagcaactgggtcactgaaca	352363	-	see also 20685 line
46740	C20orf29	NM_018347.1	741	ggccatgtcagctgtttcc	370562	-	see also 20686 line
46741	C20orf32	NM_020356.1	910	ggggttacagacattaccaaa	376874	-	see also 20687 line
46742	C20orf32	NM_020356.1	911	gcggttacagacattaccaaa	376875	-	see also 20687 line
46743	C20orf38	NM_018327.1	559	atctcatgggcaactactattg	370425	-	see also 20688 line
46744	C20orf38	NM_018327.1	477	aggcaattcaggcaaatc	370421	-	see also 20688 line
46745	C20orf4	NM_015511.2	820	gacgggtgggagcaatctacc	353651	-	see also 20689 line
46746	C20orf4	NM_015511.2	524	ctcgtatgggttctctctagc	353649	-	see also 20689 line
46747	C20orf40	NM_144703.1	887	aggcaaacccgtcaactaacg	411497	-	see also 9731 line
46748	C20orf40	NM_144703.1	1007	accatactgctactgtgtttt	411501	-	see also 9731 line
46749	C20orf43	NM_016407.1	161	gtggcccaatggaactattgtac	357395	-	see also 20691 line
46750	C20orf43	NM_016407.1	888	aagaatcggagggcctacaagtc	357406	-	see also 20691 line
46751	C20orf44	NM_018244.2	687	tacatgtctgtatcatatgtca	368963	-	see also 20692 line
46752	C20orf44	NM_018244.2	749	gggggttaacctatctctga	368967	-	see also 20692 line
46753	C20orf45	NM_016045.1	670	atcgtgacagttgtagacaaca	356097	-	see also 20693 line
46754	C20orf45	NM_016045.1	512	gactgatggcaagctacatctac	356095	-	see also 20693 line
46755	C20orf45	NM_016045.1	96	gacttcggagcagctcttgacc	356087	-	see also 20693 line
46756	C20orf51	NM_022099.2	751	cacgtcgcgtccctgtttcc	382285	-	-
46757	C20orf51	NM_022099.2	683	ctgattgggaatttactctca	382284	-	see also 46756 line
46758	C20orf51	NM_022099.2	681	ttctgattgggaatttactct	382283	-	see also 46756 line
46759	C20orf55	NM_031424.3	986	cggcgtgataagtggtgtatgg	356927	-	see also 20694 line
46760	C20orf55	NM_031424.3	762	atctcagcgcgtttttaaactc	356924	-	see also 20694 line
46761	C20orf58	NM_152864.1	558	ttctctaccatgcaatgaaga	421387	-	-
46762	C20orf58	NM_152864.1	491	ggcaggtggtcagcgtgtttacg	421386	-	see also 46761 line
46763	C20orf6	NM_016649.3	1148	cagctcagtagcagttgtaac	358726	-	see also 20695 line
46764	C20orf6	NM_016649.3	1141	ggattacacgtcgtattagcgt	358725	-	see also 20695 line
46765	C20orf65	NM_176791.2	450	gacacccagaaacctctgaaagt	429610	-	see also 20696 line
46766	C20orf65	NM_176791.2	378	cagctgggtcccatcaaaaatct	429609	-	see also 20696 line
46767	C20orf67	NM_022104.2	966	gctccacgggaggtcttcaacc	382311	-	see also 20697 line
46768	C20orf67	NM_022104.2	1700	tcggacggtaccagatgatgttc	382321	-	see also 20697 line
46769	C20orf7	NM_024120.2	206	ggccggccgaccaaattgact	386110	-	see also 8603 line
46770	C20orf71	NM_178466.1	564	accgtctcttgataaacacatcg	430811	-	see also 20699 line
46771	C20orf71	NM_178466.1	563	ggccgtctcttgataaacacatc	430810	-	see also 20699 line
46772	C20orf72	NM_052865.2	322	accggtgagcagcagaagctgc	404517	-	see also 20700 line
46773	C20orf72	NM_052865.2	886	aagttggtttacattgaaagtgt	404525	-	see also 20700 line
46774	C20orf77	NM_021215.2	878	atgctactgtccgacagaaatt	380772	-	see also 8140 line
46775	C20orf77	NM_021215.2	1061	ctcggatgttggtgaggtatcc	380778	-	see also 8140 line
46776	C20orf77	NM_021215.2	879	tgtactgtccgacagaaattg	380773	-	see also 8140 line
46777	C20orf81	NM_022760.3	1050	ccctcggggagcagctatcactgg	383988	-	see also 8455 line
46778	C20orf85	NM_178456.1	377	agctcagcagctcgatcagaagc	430789	-	-
46779	C20orf85	NM_178456.1	177	ccctttggagaggttgatcaagt	430787	-	see also 46778 line
46780	C20orf85	NM_178456.1	216	caccctcaagcccaaatcgagc	430788	-	see also 46778 line
46781	C20orf86	NM_080674.1	568	ttctaccgaaccgcaaatcaga	406660	-	see also 20702 line

1246

図46 (続き)

46782	C21orf86	NM_080674.1	915	gtcgggataaaggatctgaatg	408684	-	see also 20702 line
46783	C21orf9	NM_016004.1	1142	cacggctggctcagattaccat	355809	-	see also 6603 line
46784	C21orf92	NM_053041.1	452	gtcaggcgcgattcataact	405823	-	see also 20704 line
46785	C21orf92	NM_053041.1	447	agcaggctcaggcggattcata	405821	-	see also 20704 line
46786	C21orf100	NM_145033.1	134	tgcctcacacgtgacattgtt	412984	-	see also 20705 line
46787	C21orf100	NM_145033.1	135	gcctcaacacgtgacattgttg	412985	-	see also 20705 line
46788	C21orf121	NM_198078.1	508	gtgatactgactgagatcttat	436986	-	see also 20706 line
46789	C21orf125	NM_194309.1	96	tcctcgggacacattaggaatga	436679	-	see also 20707 line
46790	C21orf125	NM_194309.1	370	cggotttgacaagaatagatttg	436685	-	see also 20707 line
46791	C21orf128	NM_152507.1	314	ctctgacactagcccaagaagagg	417314	-	see also 20708 line
46792	C21orf128	NM_152507.1	75	ggggctgccttgccatcagaaca	417312	-	see also 20708 line
46793	C21orf129	NM_152506.1	511	ctccttagacagaggttaattat	417308	-	see also 20709 line
46794	C21orf129	NM_152506.1	512	tccttagacagaggttaattattc	417309	-	see also 20709 line
46795	C21orf18	NM_017438.1	353	tagggcctacattactaagtgg	358832	-	see also 20710 line
46796	C21orf18	NM_017438.1	889	tacggccctcacgataatcaacg	358843	-	see also 20710 line
46797	C21orf42	NM_058184.1	505	cagatcacatcaagagatctaat	406211	-	see also 20711 line
46798	C21orf42	NM_058184.1	508	atcacatcaagatctaaatctc	406212	-	see also 20711 line
46799	C21orf56	NM_032261.3	367	gagctactacctcaatgagatcc	399104	-	see also 20712 line
46800	C21orf7	NM_020152.2	291	tgcacacttagaagattgtgg	375726	-	see also 20714 line
46801	C21orf7	NM_020152.2	830	gagctaatgccaagttagatca	375731	-	see also 20714 line
46802	C21orf74	NM_153203.1	225	cacctgaagctgttttagttt	422093	-	-
46803	C21orf77	NM_018277.1	185	ttaactgctgcgcagcaaatga	369636	-	see also 20716 line
46804	C21orf77	NM_018277.1	187	cactgctgcgcagcaaatgacc	369637	-	see also 20716 line
46805	C21orf80	NM_015227.2	1104	gacggagcgtgttcgattatga	350121	-	see also 20717 line
46806	C21orf80	NM_015227.2	647	agccgctcgtgattgttagaca	350115	-	see also 20717 line
46807	C21orf80	NM_015227.2	183	aactcgcgcagaggtgtatat	350110	-	see also 20717 line
46808	C21orf82	NM_153751.1	248	ccctgttgcaaggctatgtcttc	423878	-	-
46809	C21orf82	NM_153751.1	278	aaccagcgcgaagacacataaat	423879	-	see also 46808 line
46810	C21orf84	NM_153752.1	95	aactctgagcaagtcacacacac	423880	-	see also 20718 line
46811	C21orf86	NM_153454.1	688	cagagagcggatgtttgtgaagc	423284	-	see also 20719 line
46812	C21orf86	NM_153454.1	683	ccccgcagagagcgatgttgt	423282	-	see also 20719 line
46813	C21orf88	NM_153754.1	269	tctgtctcaaggcccaaatca	423886	-	see also 20720 line
46814	C21orf88	NM_153754.1	367	gtgggtgttaggaatgaagtc	423888	-	see also 20720 line
46815	C21orf90	NM_153204.1	741	ccccccacgctcattcgttag	422096	-	see also 20721 line
46816	C21orf90	NM_153204.1	747	accagctcattcgttagatgatt	422097	-	see also 20721 line
46817	C21orf93	NM_145179.1	968	ccccgacacgccacagacatgg	413760	-	-
46818	C21orf93	NM_145179.1	908	accatcccccgcacatggaaagg	413759	-	see also 46817 line
46819	C21orf94	NM_145180.2	121	agcctggaagactgtatggaagg	413761	-	-
46820	C21orf94	NM_145180.2	219	tacattgtctgtgtatatact	413762	-	see also 46819 line
46821	C21orf97	NM_021941.1	1023	aacctgtctaagtaaacatctg	381388	-	-
46822	C21orf97	NM_021941.1	768	tcttcacatccaccagtatact	381386	-	see also 46821 line
46823	C21orf97	NM_021941.1	1019	ggaaacctgtcttaagtaaac	381387	-	see also 46821 line
46824	C22orf18	NM_024053.2	128	ggcgagctgagctcaaaagg	385652	-	see also 20722 line
46825	C22orf18	NM_024053.2	391	agctggccacacacctatcaagc	385654	-	see also 20722 line

図46 (続き)

1247

46826	C2orf19	NM_003678.2	1339	gactttgagcactatgacttg	331991	-	see also 20723 line
46827	C2orf19	NM_003678.2	669	accgagagtgctatctaacaaag	331979	-	see also 20723 line
46828	C2orf2	NM_015373.2	429	cacttgctgaatccacttaattgg	351874	-	-
46829	C2orf2	NM_015373.2	472	aggatcagccggaagagaaaatg	351876	-	see also 46828 line
46830	C2orf2	NM_015373.2	471	gagagtcagccggaagagaaaat	351875	-	see also 46828 line
46831	C2orf4	NM_014346.1	933	tcttaggaacgacgaagtccacc	340249	-	see also 20724 line
46832	C2orf4	NM_014346.1	917	ttagcactattcagattcagg	340248	-	see also 20724 line
46833	C2orf11	NM_144629.1	1568	tgcctacaagcagatcgatttc	410581	-	see also 20725 line
46834	C2orf11	NM_144629.1	701	tgtgtctattgccttgaaatta	410556	-	see also 20725 line
46835	C2orf3	NM_003203.2	494	agcccgagaaaacgtgaattgg	331248	-	see also 20726 line
46836	C2orf3	NM_003203.2	1746	cccccgaattacagacttttaga	331282	-	see also 20726 line
46837	C2orf3	NM_003203.2	2095	agctgctaaatcgttaacctatt	331293	-	see also 20726 line
46838	C2orf5	NM_152516.1	174	gagggggattcttaagctattg	417452	-	see also 20727 line
46839	C2orf5	NM_152516.1	435	tgccattatagagctggaattag	417455	-	see also 20727 line
46840	C2orf6	NM_018221.1	452	gtccgagatatgaatatcactgg	368571	-	see also 20728 line
46841	C2orf6	NM_018221.1	447	tgcagatccgagatatgaatc	368570	-	see also 20728 line
46842	C2orf9	NM_032309.2	281	agcgggactgtcactacctaag	399641	-	see also 20729 line
46843	C2orf9	NM_032309.2	417	ggcacaactgtgcagagcatatgc	399643	-	see also 20729 line
46844	C3F	NM_005768.4	195	tgcacacgcgaactacgatatca	334225	-	see also 20730 line
46845	C3F	NM_005768.4	1183	tctctgacactattcatatt	334237	-	see also 20730 line
46846	C3orf6	NM_174908.2	1417	atcgaggatcaactatttaca	428622	-	see also 20731 line
46847	C3orf6	NM_174908.2	1198	aagaatctctgactcttaattg	428614	-	see also 20731 line
46848	C4.4A	NM_014400.1	680	tgcactcggagtagagtaacagg	340537	-	see also 20732 line
46849	C4.4A	NM_014400.1	732	gccaggggtcccgctgtaactct	340538	-	see also 20732 line
46850	C4.4A	NM_014400.1	614	gtacacttgacggcagcctaattgt	340535	-	see also 20732 line
46851	C4orf7	NM_152997.1	284	ctccctctcctagcgaagaaagtaa	421766	-	see also 20733 line
46852	C4orf7	NM_152997.1	230	tccatgttttagacgttaatttt	421763	-	see also 20733 line
46853	C4orf7	NM_152997.1	231	tccatgttttagacgttaatttc	421764	-	see also 20733 line
46854	C4orf8	NM_003704.1	423	gccgcaagcgcaccagttcatct	331996	-	see also 20734 line
46855	C5orf7	NM_003704.1	2087	cagttctcagatagtaaaagagaaa	332019	-	see also 20734 line
46856	C5orf7	NM_016604.2	920	gtcgtatagatccagactaatcc	358256	-	see also 6947 line
46857	C5orf7	NM_016604.2	974	aagcggaggggggtacgttaaaaag	358258	-	see also 6947 line
46858	C5orf7	NM_016604.2	975	agcggaggggggtacgttaaaaag	358259	-	see also 6947 line
46859	C6orf10	NM_006781.2	335	tagagagatcccgacatgcattt	338322	-	see also 20736 line
46860	C6orf10	NM_006781.2	653	tccaggaacctattgacaataatc	338336	-	see also 20736 line
46861	C6orf102	NM_145027.2	278	agccctctggaggaagatataaat	412863	-	see also 20737 line
46862	C6orf102	NM_145027.2	663	atggctcccaactctcttaaca	412867	-	see also 20737 line
46863	C6orf105	NM_032744.1	414	taccacaagttctagatattgt	401313	-	see also 20738 line
46864	C6orf105	NM_032744.1	393	ctctacaatcagatctcattta	401312	-	see also 20738 line
46865	C6orf105	NM_032744.1	511	ctcactctatccataaagaag	401314	-	see also 20738 line
46866	C6orf106	NM_022758.3	671	aaccacacttggcaagttaaatg	383983	-	-
46867	C6orf106	NM_022758.3	672	acacacttggcaagttaaatgt	383984	-	see also 46866 line
46868	C6orf106	NM_022758.3	674	cacacttggcaagttaaatgcc	383985	-	see also 46866 line
46869	C6orf107	NM_017754.2	2931	agcactagcctctgtagattcaga	361748	-	see also 20739 line

図46 (続き)

1248

46870	C6orf107	NM_017754.2	3533	gacggtatctcaacagtcatttg	361761	-	see also 20739 line
46871	C6orf107	NM_017754.2	1312	tcgcgaagatggcggttgactat	361723	-	see also 20739 line
46872	C6orf109	NM_015388.1	600	ttcactctgggtgtctactctact	352178	-	see also 20740 line
46873	C6orf109	NM_015388.1	814	tcctgttcaacacataataac	352183	-	see also 20741 line
46874	C6orf111	NM_032870.1	1937	gagtcgagatagcggtgaaattg	402362	-	see also 20741 line
46875	C6orf111	NM_032870.1	735	tggattcgcgaaggctctgaaaa	402338	-	see also 20741 line
46876	C6orf111	NM_032870.1	1946	taggcgtgaaattgatgacaac	402364	-	see also 20741 line
46877	C6orf113	NM_145062.1	1713	aggtcagcagcgaactgttatg	413457	-	see also 9771 line
46878	C6orf113	NM_145062.1	809	gtgatacaaccactctatattgt	413426	-	see also 20743 line
46879	C6orf117	NM_138409.1	224	tcocagcaatcgccatctaattc	407972	-	see also 20743 line
46880	C6orf117	NM_138409.1	225	cccagcaatcgccatctaattct	407973	-	see also 20743 line
46881	C6orf118	NM_144980.1	236	gcctccggagacgatcttacagc	412271	-	see also 20744 line
46882	C6orf118	NM_144980.1	1041	atgctcgtgacagccacaaagc	412277	-	see also 20744 line
46883	C6orf125	NM_032340.1	221	agcgcgactcattcaaaactact	399820	-	see also 20745 line
46884	C6orf125	NM_032340.1	52	gcgcgtacccggcttttttaag	399816	-	see also 20745 line
46885	C6orf128	NM_145316.2	112	ggcgtgtagacatgatactcatct	414413	-	see also 20746 line
46886	C6orf128	NM_145316.2	358	tgcacacgtcgtatacaaaatcc	414422	-	see also 20746 line
46887	C6orf130	NM_145063.2	388	gagagatggcgatataatatt	413465	-	see also 20747 line
46888	C6orf130	NM_145063.2	394	tggcgatataatataacttga	413467	-	see also 20747 line
46889	C6orf134	NM_024909.1	715	ctcctctagtaccagagaatttc	391972	-	see also 8803 line
46890	C6orf134	NM_024909.1	417	ggcgagaactctccagtatatg	391967	-	see also 8803 line
46891	C6orf134	NM_024909.1	718	ctctagtaccagagaattctga	391974	-	see also 8803 line
46892	C6orf136	NM_145029.1	883	atgagatctcaacatacgtacc	412880	-	see also 20749 line
46893	C6orf136	NM_145029.1	1074	cgggtctcaacagcgtgacaaga	412885	-	see also 20749 line
46894	C6orf141	NM_153344.1	571	agcagaccccccacaaatagctgc	422841	-	see also 20750 line
46895	C6orf141	NM_153344.1	683	ttcgtgacgcgcctcaacttttg	422842	-	see also 20751 line
46896	C6orf142	NM_138569.1	1178	ctcgtccatccctttatatacaga	408480	-	see also 20751 line
46897	C6orf142	NM_138569.1	1174	ctgctcgtccatccctttatata	408479	-	see also 10294 line
46898	C6orf145	NM_183373.1	664	tacgtcaaccaaacctgtcatatta	435684	-	see also 20752 line
46899	C6orf146	NM_173563.1	1201	aactcgttactggaactagaac	426157	-	see also 20752 line
46900	C6orf146	NM_173563.1	1590	aactactattggccatacaaat	426171	-	see also 20752 line
46901	C6orf146	NM_173563.1	1813	gtgcctctcccttatgtgtaagg	426181	-	see also 20752 line
46902	C6orf148	NM_030568.2	775	ctgcgcgaacactttcattctcc	394631	-	see also 20753 line
46903	C6orf148	NM_030568.2	688	ggccacaggactcctcatcatcatg	394630	-	see also 20753 line
46904	C6orf150	NM_138441.1	613	agctcagccgcgatgatatactcc	408193	-	see also 20754 line
46905	C6orf150	NM_138441.1	1493	ctgcgtgacatactttcttcagt	408209	-	see also 20754 line
46906	C6orf151	NM_152551.2	234	tcatacattcccaatcatcaca	418002	-	see also 20755 line
46907	C6orf151	NM_152551.2	775	ggggtgattcgagatgtgtataaa	418021	-	see also 20755 line
46908	C6orf152	NM_181714.1	1442	aggtacaggcgaataatacaaaa	432934	-	see also 20756 line
46909	C6orf152	NM_181714.1	816	aagccctaaaggcttaccacaaca	432903	-	see also 20756 line
46910	C6orf153	NM_033112.1	318	atcgcgatacttttttactgca	403361	-	see also 20757 line
46911	C6orf153	NM_033112.1	200	gactaagacgtacaaacaattgg	403356	-	see also 20757 line
46912	C6orf153	NM_033112.1	136	acctattgaggggcacatcaac	403350	-	see also 20757 line
46913	C6orf155	NM_024882.1	666	caactcgtgctcgggatttcagg	391647	-	see also 20758 line

図46 (続き)

1249

46914	C6orf155	NM_024882.1	497	aacttcgaaccgggaaaagttt	391645	-	see also 20758 line
46915	C6orf162	NM_020425.3	189	ttcgatttgtaactcttcaact	377419	-	see also 20759 line
46916	C6orf162	NM_020425.3	185	ggcttctggattgtaactcttt	377418	-	see also 20759 line
46917	C6orf165	NM_178823.2	285	ctggctattgatactaaat	431672	-	see also 20760 line
46918	C6orf165	NM_178823.2	1013	aagatagcgggtcccaacacaca	431700	-	see also 20760 line
46919	C6orf166	NM_018064.2	687	gcgcctcgcgcgcgaagatct	366029	-	see also 20761 line
46920	C6orf166	NM_018064.2	958	tacggcaggttggatgatctgt	366034	-	see also 20761 line
46921	C6orf167	NM_018064.2	689	cgctcgcgcgcgaagatctcc	366030	-	see also 20761 line
46922	C6orf167	NM_198468.1	2366	gtttcattatcggttaagagc	438352	-	see also 20762 line
46923	C6orf167	NM_198468.1	2692	ttcaagccttaaccgttaagaca	438359	-	see also 20762 line
46924	C6orf167	NM_198468.1	2554	ctcagccagtatacaattatt	438356	-	see also 20762 line
46925	C6orf168	NM_032511.1	671	gaattaccgtatcagaactattt	400484	-	see also 9229 line
46926	C6orf170	NM_152730.2	622	ttctgtgtgtcgtcacatatata	420191	-	see also 20764 line
46927	C6orf170	NM_152730.2	1563	ctcggagggtactcgaagaggt	420218	-	see also 20764 line
46928	C6orf18	NM_019052.2	1856	ggcttgattgtcgaagcttgc	374774	-	see also 20765 line
46929	C6orf18	NM_019052.2	2545	ttcttccctactcgataagaaga	374775	-	see also 20765 line
46930	C6orf182	NM_173830.3	1512	tccaatacaggttcataatcttc	428446	-	see also 20766 line
46931	C6orf182	NM_173830.3	1422	cagctaccctaaaggatcaaga	428445	-	see also 20766 line
46932	C6orf188	NM_153711.1	677	ctgcctgcgcgtactaaagttag	423836	-	see also 10016 line
46933	C6orf188	NM_153711.1	675	tgcctgcgcgcgtactaaagttag	423835	-	see also 10016 line
46934	C6orf192	NM_052831.1	786	ctgctgcgtcttcccaaggttg	404295	-	see also 20768 line
46935	C6orf192	NM_052831.1	711	ttgctgatgtgtaccactcaatat	404289	-	see also 20768 line
46936	C6orf195	NM_152554.1	874	ccgctcagaggagagtagcaaat	418071	-	see also 20769 line
46937	C6orf195	NM_152554.1	664	ggctacagcatgcctcagattgc	418070	-	see also 20769 line
46938	C6orf203	NM_016487.2	738	gtgttaaggcgggtggaaaagttt	357829	-	see also 20770 line
46939	C6orf203	NM_016487.2	332	aaggctacaaaatctactaaaa	357822	-	see also 20770 line
46940	C6orf206	NM_152732.2	181	ggctcgtcgcgcgtactacatc	420249	-	see also 20771 line
46941	C6orf206	NM_152732.2	179	tggcctcgtcgcgcgtactacata	420248	-	see also 20771 line
46942	C6orf208	NM_025002.1	619	cccgcaactctgtccatttcataa	392895	-	-
46943	C6orf208	NM_025002.1	618	cccgcaactctgtccatttcata	392894	-	see also 46942 line
46944	C6orf210	NM_020381.2	992	cagatgattgggaatctogact	377334	-	see also 20772 line
46945	C6orf210	NM_020381.2	298	ttgcacttgccacttattcttgg	377319	-	see also 20772 line
46946	C6orf211	NM_024573.1	652	tcaccaatcgattactttgatg	387389	-	see also 20773 line
46947	C6orf211	NM_024573.1	591	caccgtggttggtagaagt	387381	-	see also 20773 line
46948	C6orf25	NM_025260.2	369	ggggacagagcaactatgcaagg	394622	-	see also 20774 line
46949	C6orf25	NM_025260.2	78	ccctggggaccgggtgaatctct	394619	-	see also 20774 line
46950	C6orf27	NM_025258.1	1387	ctgcgttttgagccatcacaaagc	394616	-	see also 20775 line
46951	C6orf27	NM_025258.1	2187	tagtggccctcgggttttttgg	394617	-	see also 20775 line
46952	C6orf29	NM_025257.1	607	caggagatcagcggtcttattga	394584	-	see also 20776 line
46953	C6orf29	NM_025257.1	446	tgcagagggtaccctgggaatg	394581	-	see also 20776 line
46954	C6orf32	NM_015864.2	466	ggcccaatgggtcattagaagc	355261	-	see also 6546 line
46955	C6orf32	NM_015864.2	820	gagcctcgtgaggttcataaagt	355267	-	see also 6546 line
46956	C6orf37	NM_017633.1	894	ctgacccgtgaggtcttatctcc	359781	-	see also 20778 line
46957	C6orf37	NM_017633.1	892	ctctgaccgatggaggtttatat	359780	-	see also 20778 line

図46 (続き)

1250

46958	C6orf48	NM_016947.1	275	ccctgtctactcaaaacaactaa	358820	-	-	-
46959	C6orf48	NM_016947.1	280	ctgactcaaaacaactaatgaac	358821	-	see also 46958 line	
46960	C6orf48	NM_016947.1	386	ctcatggagagaagccttggatg	358822	-	see also 46958 line	
46961	C6orf49	NM_013397.3	1266	gactcgaagacctaaggagatttt	338903	-	-	
46962	C6orf49	NM_013397.3	444	ctccctccgacgacacttgatga	338900	-	see also 46961 line	
46963	C6orf49	NM_013397.3	794	ggctgtgaccagctgactcttt	338902	-	see also 46961 line	
46964	C6orf55	NM_016485.3	149	ctggaaatgaagatcgatgataa	357777	-	see also 6879 line	
46965	C6orf55	NM_016485.3	761	ttgatcccgacactttcaataca	357802	-	see also 6879 line	
46966	C6orf56	NM_014721.1	1756	ctgaagagatcctcgatttaac	342865	-	see also 20780 line	
46967	C6orf56	NM_014721.1	1379	ctggagcgggctctcttgata	342855	-	see also 20780 line	
46968	C6orf60	NM_024581.3	3608	ctccagtccacgatattgagttc	387553	-	see also 20781 line	
46969	C6orf60	NM_024581.3	3609	tccagtcacgatattgagttca	387554	-	see also 20781 line	
46970	C6orf62	NM_030939.2	813	tccatgctctcgatatacagctc	395635	-	see also 8972 line	
46971	C6orf62	NM_030939.2	819	ctcctogatatcagctctatgaga	395637	-	see also 8972 line	
46972	C6orf64	NM_018322.1	145	aagcgttctcgtgtatgaaacc	370326	-	see also 20783 line	
46973	C6orf64	NM_018322.1	356	tggaaattggcctggcattttt	370328	-	see also 20783 line	
46974	C6orf65	NM_152731.1	474	aagaattgtgcgcaataaaaa	420234	-	see also 20784 line	
46975	C6orf65	NM_152731.1	702	ttgctcaacatcgagtaattct	420239	-	see also 20784 line	
46976	C6orf69	NM_173562.3	1400	ggcgggtctggaagtcactataa	426124	-	see also 20785 line	
46977	C6orf69	NM_173562.3	1401	gcgggttgaaagtcactataat	426125	-	see also 20785 line	
46978	C6orf69	NM_173562.3	1022	ttcaacactatccgatcgaaga	426111	-	see also 20785 line	
46979	C6orf74	NM_016063.1	195	gagcgtttcagatcacatgacc	356171	-	see also 20786 line	
46980	C6orf74	NM_016063.1	494	ctgagatagtcagcgtgtttct	356176	-	see also 20786 line	
46981	C6orf75	NM_021820.1	441	agcgaatagatcactgaattt	381057	-	see also 20787 line	
46982	C6orf75	NM_021820.1	126	tccgctgcgcggaaataaagtct	381042	-	see also 20787 line	
46983	C6orf76	NM_024807.1	299	tgctctataagggtacacaaaa	390832	-	see also 20788 line	
46984	C6orf76	NM_024807.1	240	ctgtgacagtgatatacacaaaa	390829	-	see also 20788 line	
46985	C6orf78	NM_153036.1	515	atgacttgcaaggctcactatagc	422019	-	see also 20789 line	
46986	C6orf78	NM_153036.1	395	tgcacgcataaagaagctattt	422015	-	see also 20789 line	
46987	C6orf79	NM_022102.1	586	tggagcgcgaaggagagatttc	382301	-	see also 20789 line	
46988	C6orf81	NM_145028.3	423	tgtctgtactacggatgacatcg	412874	-	see also 20790 line	
46989	C6orf81	NM_145028.3	550	caggaaacactccatacaagtact	412877	-	see also 20790 line	
46990	C6orf82	NM_015921.1	274	ctgtggcctccgcctttttgttg	355489	-	see also 6571 line	
46991	C6orf82	NM_015921.1	481	acctatccctcaagatcacatcc	355490	-	see also 6571 line	
46992	C6orf83	NM_145169.1	205	ggcggcataaagctttttgcagt	413541	-	see also 20792 line	
46993	C6orf83	NM_145169.1	151	ttcgtatgtggcgttttttttc	413540	-	see also 20792 line	
46994	C6orf83	NM_145169.1	465	tgcaggagatcgagttatfaat	413548	-	see also 20792 line	
46995	C6orf84	NM_014895.1	3160	agcggaaatagacgtttcttaac	345360	-	see also 20793 line	
46996	C6orf84	NM_014895.1	3159	aagccgaaatagacgtttcttaaa	345359	-	see also 20793 line	
46997	C6orf85	NM_021945.2	2133	taccctgtcagcctttcaataaa	381531	-	-	
46998	C6orf85	NM_021945.2	2134	acctgtcagcctttcaataaaa	381532	-	see also 46997 line	
46999	C6orf85	NM_021945.2	1819	agctgtgagcaaacactttatg	381530	-	see also 46997 line	
47000	C6orf89	NM_152734.1	1363	tgcgattggaacgcgtttctcaga	420274	-	see also 20794 line	
47001	C6orf89	NM_152734.1	1315	cactggaaaggctacgctttagc	420273	-	see also 20794 line	

図46 (続き)

1251

47002	C6orf89	NM_152734.1	1313	ccactggaaggtctacgttata	420272	-	see also 20794 line
47003	C6orf93	NM_032860.3	821	tcgttcacaggattatcgatga	402146	-	see also 9322 line
47004	C6orf93	NM_032860.3	174	cggagccacagagatccttagc	402135	-	see also 9322 line
47005	C6orf96	NM_017909.1	1196	ctctaaggcaccgataaaacttg	363870	-	see also 7171 line
47006	C6orf96	NM_017909.1	1193	ttgtcttaaggacacgataaac	363868	-	see also 7171 line
47007	C6orf97	NM_025059.2	234	tcogataccaagatgctttttaa	393364	-	see also 20797 line
47008	C6orf97	NM_025059.2	1549	gagcctctccggcagaaatag	393381	-	see also 20797 line
47009	C7orf11	NM_138701.1	501	ggcctagaaccagatctgttagt	408605	-	see also 20798 line
47010	C7orf11	NM_138701.1	531	agccaacaataacagcaatactca	408607	-	see also 20798 line
47011	C7orf13	NM_032625.1	821	tcgtcttcccttctcttaagg	401148	-	see also 20799 line
47012	C7orf19	NM_032831.1	155	ccggccataaggcctggtattac	401805	-	see also 20800 line
47013	C7orf2	NM_022458.2	1401	ttggcgacttggaaagtttaat	382944	-	see also 20801 line
47014	C7orf2	NM_022458.2	204	aagtccggaggtccacgatgt	382905	-	see also 20801 line
47015	C7orf20	NM_015949.2	680	ggccaggccggtctcacagtttc	355598	-	see also 20802 line
47016	C7orf21	NM_031434.2	294	atgagtgacccgtctttctcg	396954	-	-
47017	C7orf22	NM_031443.2	823	agcgtgactctctcaaaaagt	397037	-	see also 20803 line
47018	C7orf22	NM_031443.2	123	ctgcatttaaacagagattacc	397027	-	see also 20803 line
47019	C7orf23	NM_024315.2	278	gacgtccgcaaggatcgaaatca	386231	-	see also 20804 line
47020	C7orf23	NM_024315.2	281	gtccgccaaggatcgaaatca	386232	-	see also 20804 line
47021	C7orf24	NM_024051.2	487	aactctgaaagtattctgatga	385631	-	see also 20805 line
47022	C7orf24	NM_024051.2	364	gtggagtagtagtggaaatga	385628	-	see also 20805 line
47023	C7orf24	NM_024051.2	610	agcaatagaccacaaatgactata	385637	-	see also 20805 line
47024	C7orf25	NM_024054.1	1399	cacccttaccacaaagactaca	385682	-	see also 20806 line
47025	C7orf25	NM_024054.1	834	cagagtgaccgagaaatatac	385663	-	see also 20806 line
47026	C7orf26	NM_024067.2	413	agcggacccggtgttactgt	385716	-	see also 8581 line
47027	C7orf26	NM_024067.2	549	ctcgttacccggtctctgaacc	385720	-	see also 8581 line
47028	C7orf27	NM_152743.1	851	ctgttctcccggttctcgttct	420312	-	see also 20808 line
47029	C7orf27	NM_152743.1	2138	gccacgtgggctcttgacttc	420315	-	see also 20808 line
47030	C7orf28B	NM_198097.1	1370	ggcggagcctctgttttttg	437027	-	see also 20809 line
47031	C7orf31	NM_138811.3	1556	aaggacgaatgcccgattatt	409166	-	see also 9641 line
47032	C7orf31	NM_138811.3	2003	ctgttagcttagtaaacctagt	409184	-	see also 9641 line
47033	C7orf33	NM_145304.2	819	acgtacgtgggcataagtaaga	414285	-	see also 20811 line
47034	C7orf33	NM_145304.2	818	aacgtacgtgggcataagtaag	414284	-	see also 20811 line
47035	C7orf34	NM_178829.2	408	tgccacgtgcatggtttctca	431977	-	see also 20812 line
47036	C7orf34	NM_178829.2	384	tcacacgaactctgtcttagt	431976	-	see also 20812 line
47037	C7orf35	NM_032936.2	499	tgccctgcactctgtctaaact	402565	-	see also 9346 line
47038	C7orf35	NM_032936.2	591	aacagacactggatataatgt	402568	-	see also 9346 line
47039	C8orf12	NM_054017.2	1070	ctgtgctagcaactttgtctct	405968	-	-
47040	C8orf14	NM_054029.1	1567	ccgagataggttaactttgtgc	406012	-	see also 20814 line
47041	C8orf14	NM_054029.1	1565	agcccgagatcgggttaactttgt	406011	-	see also 20814 line
47042	C8orf15	NM_175076.1	1285	aactgccttgatgtgttttttc	429008	-	see also 20815 line
47043	C8orf15	NM_175076.1	1282	tggaaactgccttgatgtttat	429007	-	see also 20815 line
47044	C8orf17	NM_020237.1	1251	cccgctacaagtaagaagtgtg	376405	-	see also 20816 line
47045	C8orf17	NM_020237.1	1249	ctccgctataagtaagaagtgt	376404	-	see also 20816 line

図46 (続き)

1252

47046	C8orf17	NM_020237.1	1243	ttttttccgtcataagta	376403	-	see also 20816 line
47047	C8orf4	NM_020130.2	193	aacacagacaaagaataoactaga	375625	-	-
47048	C9orf10	NM_014612.2	966	cagatgacaaagtattcgatt	341104	-	see also 20817 line
47049	C9orf10	NM_014612.2	1429	cggaggagcagacaaacacataca	341109	-	see also 20817 line
47050	C9orf10S	NM_198841.1	1546	ccccactcccggtgaaagaga	439891	-	-
47051	C9orf10S	NM_198841.1	1620	cacacacactaagatcattcttg	439892	-	see also 47050 line
47052	C9orf23	NM_148178.1	163	gggtccgagatggcagcaaaaatt	415120	-	see also 20818 line
47053	C9orf23	NM_148178.1	281	cagctcgctggagattgtcaagc	415122	-	see also 20818 line
47054	C9orf24	NM_032596.3	683	tgctctacgagcggagagtgatgg	400984	-	see also 20819 line
47055	C9orf24	NM_032596.3	692	gcgcgaagtgatggtaaacatgc	400985	-	see also 20819 line
47056	C9orf25	NM_147202.1	694	cggctacgggttagatgagatcc	415119	-	see also 20820 line
47057	C9orf25	NM_147202.1	517	aagctgtgctgcccccaataaag	415114	-	see also 20820 line
47058	C9orf26	NM_033439.1	514	ctcaacacccctcaaatgaatca	404017	-	see also 20821 line
47059	C9orf26	NM_033439.1	402	tacaatgatcaatcactacttt	404014	-	see also 20821 line
47060	C9orf34	NM_017948.3	333	aggtaacgcgaactgttagaaa	364570	-	see also 20822 line
47061	C9orf34	NM_017948.3	2016	ttctaggccactagaaggttaaga	364616	-	see also 20822 line
47062	C9orf37	NM_032937.2	1006	cacgcgccagcgggttttctcagc	402571	-	see also 20823 line
47063	C9orf37	NM_032937.2	1078	caggagccaaaggcacaaatttaa	402572	-	see also 20823 line
47064	C9orf41	NM_152420.1	376	tactacggcaccagatgcatga	416503	-	see also 20824 line
47065	C9orf41	NM_152420.1	397	ggcgggttaacccgaacagagaag	416504	-	see also 20824 line
47066	C9orf45	NM_030814.3	586	ggagagatgctttgtactactia	395279	-	see also 20825 line
47067	C9orf45	NM_030814.3	588	gagatcttgctactactact	395280	-	see also 20825 line
47068	C9orf46	NM_018465.1	450	tcocgatgttccatgaagcttt	371893	-	see also 7490 line
47069	C9orf46	NM_018465.1	446	ctggtcccgattgttcataag	371891	-	see also 7490 line
47070	C9orf48	NM_194313.1	2115	accocacagacaggaagttagta	436716	-	see also 20827 line
47071	C9orf48	NM_194313.1	2444	gagccagctggcttctaatgatt	436719	-	see also 20827 line
47072	C9orf54	NM_032809.2	1088	ctccgcacccagcgtctttagt	401599	-	see also 20828 line
47073	C9orf54	NM_032809.2	1089	gtccctgcagactggagattacc	401600	-	see also 20828 line
47074	C9orf7	NM_017586.1	239	ggcgttgagatgcatgaatgc	359388	-	see also 20829 line
47075	C9orf7	NM_017586.1	297	gccagttcagtgagttgcaaac	359389	-	see also 20829 line
47076	C9orf9	NM_018956.3	572	ccccctactcctagacttaaga	373893	-	-
47077	C9orf9	NM_018956.3	452	aacctctgttagccaaagcaacg	373890	-	see also 47076 line
47078	C9orf9	NM_018956.3	570	atccccctactcctagacttaat	373891	-	see also 47076 line
47079	CAB2	NM_033419.2	197	gacctgcggagcagactgaagt	403859	-	see also 20830 line
47080	CAB2	NM_033419.2	163	cccgccacccaatctacatgagt	403858	-	see also 20830 line
47081	CAB56184	NM_032520.2	240	gtggagtcacagtcacaaagtatga	400546	-	see also 9232 line
47082	CAB56184	NM_032520.2	430	tggagctggcgttggaagaaagc	400547	-	see also 9232 line
47083	CACNB3	NM_000725.2	1180	cagtcgccaccagagtcattga	329865	-	see also 20831 line
47084	CACNB3	NM_000725.2	1183	tgccaccagagtcattgatgt	329866	-	see also 20831 line
47085	CADPS2	NM_017954.7	456	aacgcagttcggagttattatga	364760	-	see also 7181 line
47086	CADPS2	NM_017954.7	453	tgcacacagcttcggagttatta	364759	-	see also 7181 line
47087	CADPS2	NM_017954.7	1168	ctcccaatgaattgtttactgt	364789	-	see also 7181 line
47088	CaMKII α NaI pha	NM_018584.4	552	ggcggagcaagcgggtgtttatt	372263	-	see also 20832 line

図 46 (続き)

1253

47089	CaMKII α	NM_018584.4	454	cggcgacgtggcgagatctct	37261	-	see also 20832 line
47090	CAMTA2	NM_015099.2	2352	cccgctcaagtggtatcttct	348024	-	see also 6236 line
47091	CAMTA2	NM_015099.2	2662	gtcagctcagctattctagtgc	348026	-	see also 6236 line
47092	CANP	NM_198947.1	877	ggccgcttccgtgtgacatag	440166	-	see also 20834 line
47093	CANP	NM_198947.1	1298	atctggttaggggtatgtatt	440175	-	see also 20834 line
47094	CAP350	NM_014810.2	8760	agcgtgttagggatgatcaaga	344147	-	see also 20835 line
47095	CAP350	NM_014810.2	1950	gagctacgacagatattgttag	343945	-	see also 20835 line
47096	CAPN12	NM_144691.2	816	ctcggaacacgggaatgattct	411331	-	see also 20835 line
47097	CAPN12	NM_144691.2	516	ggccaaaggcgtgaaatggatga	411327	-	see also 20836 line
47098	CASKIN1	NM_020764.1	958	ggcgacacaggattattgcaac	378603	-	see also 20837 line
47099	CASKIN1	NM_020764.1	1252	gggaccgaagcggcagcattagc	378604	-	see also 20837 line
47100	CASKIN2	NM_020753.1	1294	aggtccagagcgtcaaggatttc	378545	-	see also 20838 line
47101	CASKIN2	NM_020753.1	459	ctgactcccgctcaagaatgg	378538	-	see also 20838 line
47102	CASP8AP	NM_012115.2	3075	cagctgattgctgggaagtcgaag	337596	-	see also 20839 line
47103	CASP8AP	NM_012115.2	898	tggcgagggttagctcaaatgagg	337539	-	see also 20839 line
47104	CAST	NM_015576.1	1727	gagtagatgcctgagattacg	354210	-	see also 6496 line
47105	CAST	NM_015576.1	2940	accgactagtcacatcaattaaag	354231	-	see also 6496 line
47106	CBLN2	NM_182511.2	912	ttgacacaggtattgttaatat	434038	-	see also 20842 line
47107	CBLN2	NM_182511.2	1006	acgtggtaaaagtgtataacaga	434043	-	see also 20842 line
47108	CBLN1	NM_080617.3	399	aaactaccaggttaacttgatgt	406455	-	see also 9516 line
47109	CBLN1	NM_080617.3	512	aagaggataaggttaactaaaa	406459	-	see also 9516 line
47110	CBLN1	NM_080617.3	493	gtctctctacctagataaaga	406458	-	see also 9516 line
47111	CDC2	NM_025103.1	1322	tgcagctcgaataataaatcgat	393651	-	see also 8861 line
47112	CDC2	NM_025103.1	1324	cagtcgaataataaatcgatag	393652	-	see also 8861 line
47113	CNDBP1	NM_012142.2	1059	acctgacccgtggaatcaattct	337705	-	see also 20844 line
47114	CNDBP1	NM_012142.2	1058	caactgacccgtggaatcaattc	337704	-	see also 20844 line
47115	CD1E	NM_030893.1	482	tgctcaatcgctacacatagatt	395363	-	see also 20845 line
47116	CD1E	NM_030893.1	328	cccttgagatccagatattagc	395360	-	see also 20845 line
47117	CD1E	NM_030893.1	490	cgtaactagatattaaggaaat	395365	-	see also 20845 line
47118	CD99L2	NM_031462.1	518	ggcgcgaggaacaaatgctgg	397086	-	-
47119	CD99L2	NM_031462.1	487	tggcctggatgatgaatgato	397085	-	see also 47118 line
47120	CD99L2	NM_031462.1	368	cgaggaacacgggtataggagg	397084	-	see also 47118 line
47121	CDA017	NM_032024.2	745	aagtgctgctgctttactatgg	397622	-	see also 20846 line
47122	CDA017	NM_032024.2	740	tgggaagtgtgctacgtttac	397620	-	see also 20846 line
47123	CDA11	NM_032026.1	30	gtccttcaagtattcatgatt	397625	-	see also 9062 line
47124	CDA11	NM_032026.1	141	ctgtcgagattggtgtaaaag	397627	-	see also 9062 line
47125	CDAN1	NM_138477.1	1138	gacagcgacctgaactaagtc	408368	-	see also 20848 line
47126	CDAN1	NM_138477.1	1448	gtgacggacctttcatcttt	408373	-	see also 20848 line
47127	CDCA4	NM_017955.2	638	cacaagtcactgacatgatt	364860	-	see also 20849 line
47128	CDCA4	NM_017955.2	632	agctttcacagtcactgattca	364859	-	see also 20849 line
47129	CDCA4	NM_017955.2	606	tggatggccctcgagaaacaga	364858	-	see also 20849 line
47130	CDCA5	NM_080668.2	300	ctgcagggccctaggattcc	406616	-	see also 20850 line
47131	CDCA5	NM_080668.2	348	ccctggcagggagcttactaag	406618	-	see also 20850 line

図46 (続き)

1254

47132	CDCA7	NM_031942.3	1075	tccgtgacccttcgcataataat	397449	-	see also 20851 line
47133	CDCA7	NM_031942.3	1279	tgcccttgaaaccggttatgtga	397458	-	see also 20851 line
47134	CDCA8	NM_018101.1	195	ttcgaccgtgaagtgaaatcacg	366700	-	see also 20852 line
47135	CDCA8	NM_018101.1	214	tacgaatacaagcaaatgagtcga	366703	-	see also 20852 line
47136	CDCP1	NM_022842.3	772	aacgcctcatataaaacgtct	384651	-	see also 20853 line
47137	CDCP1	NM_022842.3	767	ttgcaaacgcctcatctataaaa	384650	-	see also 20853 line
47138	CDK5RAP	NM_016082.3	1204	gagttagttcaaccattatagaga	356236	-	see also 6653 line
47139	CDK5RAP	NM_016082.3	805	cggtctattgctccattctaga	356233	-	see also 6653 line
47140	CDK5RAP	NM_018249.3	3158	gccaacgccgcaaaaacgttgc	369052	-	see also 20855 line
47141	CDK5RAP	NM_018249.3	3157	ggcacaacgccgcaaaaacgttg	369051	-	see also 20855 line
47142	CDK5RAP	NM_018249.3	1304	tgccgtgcgtctcaaaaacctca	368998	-	see also 20855 line
47143	CDT1	NM_030928.2	1433	tgtctggagcgtctttgtgtcc	395532	-	see also 20856 line
47144	CDT1	NM_030928.2	753	ggcgaatgtggccagatcaaaa	395530	-	see also 20856 line
47145	CDT1	NM_030928.2	602	gactcgtgctccctacaagtac	395529	-	see also 20856 line
47146	CDV-1	NM_014055.2	1519	aaggcaaatctcaactgtatagg	339431	-	see also 5472 line
47147	CDV-1	NM_014055.2	774	ttgggtgattggagtaaacctgt	339423	-	see also 5472 line
47148	CEAL1	NM_020219.1	274	tacgagagcaacgaggtatttac	376243	-	see also 20858 line
47149	CEAL1	NM_020219.1	279	aggcaacgaggtatttactaca	376246	-	see also 20858 line
47150	CEOR5	NM_017829.4	1107	tcacacggcaccgagacttatgc	362838	-	see also 20859 line
47151	CEOR5	NM_017829.4	198	gggtgccgtggtttttgtaca	362828	-	see also 20859 line
47152	CEI	NM_178569.2	429	ggcgggtcagtgaggtattacagg	431333	-	see also 20861 line
47153	CEI	NM_178569.2	332	aaacactggggagtgattgttac	431332	-	see also 20861 line
47154	CG018	NM_052818.1	631	aacgggtatgaacacagtgtaact	404260	-	see also 9432 line
47155	CG018	NM_052818.1	774	aggcccaacgggtggatttaca	404264	-	see also 9432 line
47156	CGEF2	NM_007023.1	753	ctctcagacacacatcatgataa	336803	-	see also 4903 line
47157	CGEF2	NM_007023.1	2623	aagcgtgttcagcttattaaaaa	336856	-	see also 4903 line
47158	CGI-115	NM_016052.2	745	gacgatcctactgctgatgttcca	356114	-	see also 20864 line
47159	CGI-115	NM_016052.2	157	atcggaagaaaggacacattttat	356099	-	see also 20864 line
47160	CGI-116	NM_016053.1	263	ggcagaccctttcaactcgtatcc	356123	-	see also 6642 line
47161	CGI-116	NM_016053.1	272	ttcaactcgtatcacaacaaattg	356124	-	see also 6642 line
47162	CGI-116	NM_016053.1	329	atctatccagccctagatgatg	356126	-	see also 6642 line
47163	CGI-12	NM_015942.3	515	ttcgagactatgtggtatcattct	355535	-	see also 20865 line
47164	CGI-12	NM_015942.3	973	aaggtttatgctgttgaaacttgg	355547	-	see also 20865 line
47165	CGI-125	NM_016060.1	348	tactcagtggtgcgaatttattg	356144	-	see also 6646 line
47166	CGI-125	NM_016060.1	161	tagccaacccaattatcattaat	356137	-	see also 6646 line
47167	CGI-127	NM_016061.1	150	atcggtgataccagtgttttc	356149	-	see also 20867 line
47168	CGI-127	NM_016061.1	234	ggcgcactggcagagcatttct	356155	-	see also 20867 line
47169	CGI-127	NM_016061.1	393	ggcagccagcgtatataaggaaagg	356161	-	see also 20867 line
47170	CGI-128	NM_016062.1	164	acgcgagatcttcgatctgatto	356165	-	see also 20868 line
47171	CGI-128	NM_016062.1	312	tgcagcatggccaaccttattgg	356167	-	see also 20868 line
47172	CGI-32	NM_015960.1	370	ttgtattcagatcgtgaaattga	355636	-	see also 20869 line
47173	CGI-32	NM_015960.1	159	ggcggagcagcaaatgatttc	355626	-	see also 20869 line
47174	CGI-38	NM_015964.1	413	gtggcggtcactaaagcaaaac	355651	-	see also 20869 line
47175	CGI-38	NM_015964.1	411	atgtggcggtcactaaagcaaaa	355650	-	see also 47174 line

図46 (続き)

1255

47176	CGI-38	NM_015964.1	407	ggcaatgtggcggtcactaaagc	355649	-	see also 47174 line
47177	CGI-48	NM_016001.1	1300	atgaaggcagtttataggatta	355731	-	see also 20871 line
47178	CGI-48	NM_016001.1	1435	aagctataatgaacttggttaca	355736	-	see also 20871 line
47179	CGI-49	NM_016002.1	283	ctcaattcgtaggaccatattcg	355742	-	see also 20872 line
47180	CGI-49	NM_016002.1	812	ttcagttatgctgcgttgtaact	355765	-	see also 20872 line
47181	CGI-57	NM_015680.3	881	atcggtggcgttaatacatcagt	354989	-	see also 20873 line
47182	CGI-57	NM_015680.3	878	ggcatcggtggcgtaataacatc	354988	-	see also 20873 line
47183	CGI-57	NM_015680.3	597	gtggccgtgccactctcaatgc	354986	-	see also 20873 line
47184	CGI-62	NM_016010.1	563	ggcacccgcacttaaaagttca	355862	-	see also 6610 line
47185	CGI-62	NM_016010.1	566	caaccgcacttaaaagttcaaat	355863	-	see also 6610 line
47186	CGI-83	NM_016027.1	437	agccacttaagagttctatata	355969	-	see also 6627 line
47187	CGI-83	NM_016027.1	432	gaggagccacttaagagttct	355967	-	see also 6627 line
47188	CGI-85	NM_016028.3	686	atgggcacggcactttttctca	355993	-	see also 6628 line
47189	CGI-85	NM_016028.3	689	ggcacggcactattttctcaaca	355995	-	see also 6628 line
47190	CGI-90	NM_016033.1	380	atcagttgtaacccaatacaag	356041	-	see also 6632 line
47191	CGI-94	NM_016037.1	809	ttcaggtcgtcgaaacgttga	356071	-	see also 20878 line
47192	CGI-94	NM_016037.1	731	caaccaagatcttatggataaa	356067	-	see also 20878 line
47193	CGI-94	NM_016037.1	363	aactcaggagcgtcaaatatag	356061	-	see also 20878 line
47194	CHPF	NM_024536.4	1059	accacgaggggggcactatagc	386906	-	see also 20879 line
47195	CHPF	NM_024536.4	738	agcacggcgagcgactttgactgg	386905	-	see also 20879 line
47196	CHPPR	NM_014637.2	133	ggctggattagcgcgtaattag	341564	-	see also 5813 line
47197	CHPPR	NM_014637.2	553	aagatttgcgtctcgaaatga	341571	-	see also 5813 line
47198	CHRM4	NM_000741.1	1358	ctctgtgcaacggccaccttaaa	329873	-	see also 20881 line
47199	CHRM4	NM_000741.1	75	tcgctatgagcgggtggaaatgg	329872	-	see also 20881 line
47200	CHRMG	NM_005199.3	405	gtccctgagcggtgttatctact	333560	-	see also 20882 line
47201	CHRMG	NM_005199.3	446	tcggttcgcgtctgtctatctca	333561	-	see also 20882 line
47202	CHSY1	NM_014918.3	2377	gtgacactcgtgtttactacaga	345661	-	see also 20883 line
47203	CHSY1	NM_014918.3	2374	gaagtgaacctgtgtttactac	345659	-	see also 20883 line
47204	CHSY1	NM_014918.3	2405	ttcagggaggtcgagcaaatata	345663	-	see also 20883 line
47205	cig5	NM_080657.3	235	accaccaaccgctcaactatca	406537	-	see also 20884 line
47206	cig5	NM_080657.3	261	cactgcagctgaactacaat	406539	-	see also 20884 line
47207	cig5	NM_080657.3	234	caaccacacagcgtaactatc	406536	-	see also 20884 line
47208	CIRH1A	NM_032830.1	739	agccatctcatcgctaatgctga	401773	-	see also 20885 line
47209	CIRH1A	NM_032830.1	65	tcacatgaagtcgttttattat	401748	-	see also 20885 line
47210	CIRH1A	NM_032830.1	661	tcogattggcactatcataagtg	401772	-	see also 20885 line
47211	CKAP2	NM_018204.2	147	ggcgagctcgcttaataagagc	368427	-	see also 20887 line
47212	CKAP2	NM_018204.2	1971	acgttctgaggtttcaagaga	368474	-	see also 20888 line
47213	CKIP-1	NM_016274.3	1363	gagagcatcatcgtaattggagc	356664	-	see also 20888 line
47214	CKIP-1	NM_016274.3	599	caaggaccccaactgatcttcc	356661	-	see also 20888 line
47215	CKLFSF8	NM_178868.3	451	ctgtgtgttgagcgttatg	432047	-	see also 20889 line
47216	CKLFSF8	NM_178868.3	754	atctgtcagctggaatacata	432052	-	see also 20889 line
47217	CL25022	NM_015702.1	897	aagctacagacatttaggttc	355201	-	see also 20890 line
47218	CL25022	NM_015702.1	294	ctgcacctcagatattgctct	355187	-	see also 20890 line
47219	CLASPI	NM_015282.1	1025	cacagtcccggttgatgaatt	350922	-	see also 20891 line

図46 (続き)

1256

47220	CLASP1	NM_015282.1	1027	cagtcacgggtgaatgaatttt	350923	-	see also 20891 line
47221	CLIP-2	NM_153221.1	2279	cgcctacgccaacgacaggtca	422266	-	see also 20892 line
47222	CLIP-2	NM_153221.1	1656	gtccgggttgcctttgatcc	422264	-	see also 20892 line
47223	CLIP-2	NM_153221.1	1561	ccgcctaccagggagacttacc	422261	-	see also 20892 line
47224	CLIPR-59	NM_015526.1	876	accctggcgtgaggaactgaaa	353708	-	see also 20893 line
47225	CLIPR-59	NM_015526.1	1227	ggggcgttgggtactcatctgc	353713	-	see also 20893 line
47226	CLONE250						
47226	03	NM_015381.1	424	ggggggaaggctggactgttaa	351951	-	see also 20894 line
47227	03	NM_015381.1	175	aactttctgggcttcattgatcc	351947	-	see also 20894 line
47228	CLST1124	NM_016438.2	488	cacaaatgtacagcagattacgtca	357480	-	see also 20895 line
47229	CLST1124	NM_016438.2	394	ctcgtgttccaccaagatgtcc	357475	-	see also 20895 line
47230	CMIP	NM_030629.1	933	tgcgaocgggaagccactttacc	394713	-	see also 20896 line
47231	CMIP	NM_030629.1	1301	agctctgcacatgagaaagtcca	394715	-	see also 20896 line
47232	CMIP	NM_030629.1	646	tgcagcgaatcctcaagcataac	394710	-	see also 20896 line
47233	CMIL66	NM_032869.2	1614	gccttcgtgagatcatctat	402319	-	see also 9325 line
47234	CMIL66	NM_032869.2	684	tggagtgggtcactatgaagtaag	402296	-	see also 9325 line
47235	CMRF-	NM_007261.1	890	ctcgggtgtgttgattcaaca	337363	-	see also 20898 line
47236	CMRF-	NM_007261.1	888	gcctcgtgtgtgttgattotaa	337362	-	see also 20898 line
47237	CMT4B2	NM_030962.1	1986	tacaacattccgcagcattact	395769	-	see also 9880 line
47238	CMT4B2	NM_030962.1	3102	ctgatgaagtccgttactcca	395799	-	see also 9880 line
47239	CMYA1	NM_194293.2	2652	ggggcaggggaccccttatcacg	436467	-	see also 20900 line
47240	CMYA1	NM_194293.2	2655	cagggcacccttatatacgaaa	436468	-	see also 20900 line
47241	CMYA3	NM_152381.2	3731	gagagctactatgttcaataag	416007	-	see also 20901 line
47242	CMYA3	NM_152381.2	3734	agctactattgttcaataagtg	416008	-	see also 20901 line
47243	CMYA4	NM_173167.1	946	gacaactcaagtaaccatctatgt	424788	-	see also 20902 line
47244	CMYA4	NM_173167.1	1506	tgcgggaagggtgcagagaaaaac	424793	-	see also 20902 line
47245	CMYA5	NM_153610.2	1687	aagttatcggttccatttgaag	423346	-	see also 20903 line
47246	CMYA5	NM_153610.2	1176	cacgaacccagatatttctacc	423337	-	see also 20903 line
47247	CNAP1	NM_014865.1	4517	ctcgtgaagatgcttgacaattt	345005	-	see also 6064 line
47248	CNAP1	NM_014865.1	1487	gccttgaccggtataaccatat	344975	-	see also 6064 line
47249	CNNM1	NM_020348.1	1842	tagcggattttgaggaacacgtgg	376816	-	see also 20905 line
47250	CNNM1	NM_020348.1	660	cacggttcttggagggtttaaga	376803	-	see also 20905 line
47251	CNNM1	NM_020348.1	765	cacgtcggaggatatacatagagg	376806	-	see also 20905 line
47252	CNNM4	NM_020184.1	1091	togaagacgagcagctccaattt	375847	-	see also 7789 line
47253	CNNM4	NM_020184.1	1174	aagactatcactcgtctctataa	375853	-	see also 7789 line
47254	CNOT10	NM_015442.1	1293	gtgacgttactaaccaataaga	352886	-	see also 6418 line
47255	CNOT10	NM_015442.1	2439	cccgatccagcccatccaatgc	352922	-	see also 6418 line
47256	CNOT3	NM_014516.1	3596	gtgacccggagacactttcttca	340823	-	see also 5745 line
47257	CNOT3	NM_014516.1	1969	tggccaggtggctcagaatacc	340817	-	see also 5745 line
47258	CNOT6L	NM_144571.1	580	taocctaccccgagctcatatgg	409789	-	see also 9693 line
47259	CNOT6L	NM_144571.1	232	ttgacagcgtgcacctaataatga	409777	-	see also 9693 line
47260	CNTN4	NM_175607.1	2933	cccggaacacatcatatgggaatt	429138	-	see also 10145 line
47261	CNTN4	NM_175607.1	2892	ctctagtgaacagtcattgtga	429137	-	see also 10145 line

図46 (続き)

1257

47262	CNTN5	NM_014361.2	2628	tccaatgatccgcacaaatgaag	340337	-	see also 20912 line
47263	CNTN5	NM_014361.2	1596	cacgtatcgttgctgaagaatg	340304	-	see also 20912 line
47264	COBL	NM_015198.2	2271	agcagcgcctcaacaacg_ataaa	349692	-	see also 20913 line
47265	COBL	NM_015198.2	2273	cacggcctcaacaacgtataaaat	349693	-	see also 20913 line
47266	COBRA1	NM_015456.2	196	ttccacagctcggtattcgatga	353229	-	see also 20914 line
47267	COBRA1	NM_015456.2	1235	ttccgaagcttcaactaagtgtt	353236	-	see also 20914 line
47268	COBRA1	NM_015456.2	1236	ttccgaagcttcaactaagtgtt	353237	-	see also 20914 line
47269	COH1	NM_015243.2	218	tactcagcagctcaggttaaaag	350162	-	see also 20915 line
47270	COH1	NM_015243.2	536	gtctgattagacaggttgtaataa	350174	-	see also 20915 line
47271	COH1	NM_015243.2	538	ctgtattagacaggttgtaataa	350175	-	see also 20915 line
47272	COL13A1	NM_005203.3	781	agcaaatgagagcggctattttg	333571	-	see also 3655 line
47273	COL23A1	NM_173465.2	1273	cacagtggtgacgactatgatg	424843	-	see also 20917 line
47274	COL23A1	NM_173465.2	1366	agccaaggcggagcgttggttgc	424844	-	see also 20917 line
47275	COL24A1	NM_152890.4	336	ttggggcagcggttacaatatt	421431	-	see also 20918 line
47276	COL24A1	NM_152890.4	337	ttggggcagcggttacaatatt	421432	-	see also 20918 line
47277	COL25A1	NM_032518.2	1832	acctccacgaagccttacagagg	400521	-	see also 20919 line
47278	COL25A1	NM_032518.2	1838	acgaagccttacagaggattacc	400522	-	see also 20919 line
47279	COL26A1	NM_133457.1	266	ggcgcaacctcgttaagttacagg	407231	-	see also 20920 line
47280	COL26A1	NM_133457.1	377	gtgatgagaatgcataactgc	407232	-	see also 20920 line
47281	COL8A2	NM_005202.1	1939	cacctatacctacgatgagtaca	333570	-	see also 20921 line
47282	COL8A2	NM_005202.1	1768	ctcgggcagtcggcgtgaatttg	333567	-	see also 20921 line
47283	COP1	NM_022457.4	1233	gtcatatctgtagtgcctotata	382885	-	see also 8376 line
47284	COPS3	NM_003653.2	943	aacctcaactcgcgatacaaca	331906	-	see also 2472 line
47285	COPS3	NM_003653.2	733	ggcggtcagtcatactatgttg	331898	-	see also 2472 line
47286	COPS3	NM_003653.2	727	tgccatggcggcagtcataatca	331896	-	see also 2472 line
47287	COPS4	NM_016129.2	181	ttcgagcggctctcataaagatc	356372	-	see also 6680 line
47288	COPS4	NM_016129.2	828	tgcactgtacatcttagcatca	356392	-	see also 6680 line
47289	COPS4	NM_016129.2	781	gacaatagtcacgaaagtgaag	356391	-	see also 6680 line
47290	COPS7A	NM_016319.1	358	gggacatacgcgtactactagc	356946	-	see also 20925 line
47291	COPS7A	NM_016319.1	357	tgggacatacgcgtactactag	356945	-	see also 20925 line
47292	COPS7B	NM_022730.1	263	gagcttgaggaagagagctaatgc	383736	-	see also 8434 line
47293	COPS7B	NM_022730.1	319	tgggacatacaccagattacatag	383739	-	see also 8434 line
47294	CORTBP2	NM_033427.1	4030	ccgctctggcgtcagcgttaactcc	403970	-	see also 20927 line
47295	CORTBP2	NM_033427.1	1660	cagttggtcggaccagtttaag	403919	-	see also 20927 line
47296	CORT7B2	NM_130902.1	193	tggcaagacatagccatgtataa	407152	-	see also 20928 line
47297	COX7B2	NM_130902.1	199	gacatagccatgtataaacactca	407155	-	see also 20928 line
47298	COX8-3	NM_182971.1	241	ttcttaacaccagctcgatagt	435503	-	-
47299	COX8-3	NM_182971.1	226	gtgttttttaagacactcttaac	435502	-	-
47300	COX8-3	NM_182971.1	215	ttggactgttggtttttttacg	435501	-	see also 47298 line
47301	CPEB2	NM_182485.1	607	gtcatagcaccaccgaaatttac	433841	-	see also 10259 line
47302	CPEB2	NM_182485.1	1579	ggcattagctcgtgttttttca	433872	-	see also 10259 line
47303	CPLX4	NM_181654.1	380	ttctattcttgagcagatatacaga	432802	-	see also 20930 line
47304	CPLX4	NM_181654.1	323	acctgaagatctccggaaatgg	432800	-	see also 20930 line
47305	CPNE2	NM_152727.4	1222	ccctatgggaccaccgaatato	420120	-	see also 9933 line

図46 (続き)

1258

47306	CPNE2	NM_152727.4	1445	cgcttctacggtctctacaattt	420125	-	see also 9933 line
47307	CPNE2	NM_152727.4	418	gacagaaacgcgatcaaac	420106	-	see also 9933 line
47308	CPNE4	NM_130808.1	1106	ggcggctaaagtgcatagatgg	408953	-	see also 20932 line
47309	CPNE4	NM_130808.1	912	tgcatcattcaatcaaggaaattgg	408943	-	see also 20932 line
47310	CPNE5	NM_020939.1	356	tacgaogttgacttaagatgc	380202	-	see also 20933 line
47311	CPNE5	NM_020939.1	332	aagcagaaactccggtttgatct	380200	-	see also 20933 line
47312	CPNE5	NM_020939.1	335	cagaactccggtttgatctata	380201	-	see also 20933 line
47313	CPNE8	NM_153634.2	554	gggatcggtttgatgcaattt	423419	-	see also 10002 line
47314	CPNE8	NM_153634.2	1744	acccaactacacatgtttaca	423453	-	see also 10002 line
47315	CPR8	NM_004748.2	2434	atggaccaggtcggtttacata	332905	-	see also 20935 line
47316	CPR8	NM_004748.2	1374	gagagagaacgactagtaactac	332873	-	see also 20935 line
47317	CPXCR1	NM_033048.3	823	gccttgagggtgcactactacc	402688	-	see also 20936 line
47318	CPXCR1	NM_033048.3	540	agcccttaaatgatagatcaaga	402681	-	see also 20936 line
47319	GRA	NM_006697.1	484	ctggtcaacattggacgattaga	336043	-	see also 20937 line
47320	GRA	NM_006697.1	688	agcaatcaagcccaacagtattc	336049	-	see also 20937 line
47321	CREB3L2	NM_194071.1	850	ttcctcggtccagaccattattc	436044	-	see also 20938 line
47322	CREB3L2	NM_194071.1	451	caacgactctcagaactcttgg	436042	-	see also 20938 line
47323	CREB3L2	NM_194071.1	523	ctcagagaaagtggtgcaatgg	436043	-	see also 20938 line
47324	CREG2	NM_153836.1	953	gggagcgcattccagtattcaagg	423954	-	see also 20939 line
47325	CREG2	NM_153836.1	885	ggctgctcaatgaatggttct	423950	-	see also 20939 line
47326	CRG-L2	NM_181789.1	1005	gacggctcagcattcttggagc	433494	-	see also 20940 line
47327	CRG-L2	NM_181789.1	1051	cagtggtgcaacacgctgaatcc	433495	-	see also 20940 line
47328	CRIP1	NM_014171.2	324	tgcgatgtgtggaaaaaaggttt	339836	-	see also 20941 line
47329	CRIP1	NM_014171.2	130	tggaaagatgtgtgtaggaatcc	339830	-	see also 20941 line
47330	CROC4	NM_006365.1	122	tctgactgaggatctcctaata	335348	-	see also 20942 line
47331	CROC4	NM_006365.1	527	ggctaagttggagaccacaaga	335353	-	see also 20942 line
47332	CRN9	NM_030782.2	1223	aaccgagaggtacgatactcagg	394981	-	see also 8945 line
47333	CRN9	NM_030782.2	1282	gtgtggggggctctgtctattca	394984	-	see also 8945 line
47334	CRTAM	NM_019604.1	750	tcttagtacctggagattgaca	375469	-	see also 20944 line
47335	CRTAM	NM_019604.1	296	tacattacagcgactctgtaagc	375454	-	see also 20944 line
47336	CRYGN	NM_144727.1	374	aacattccgctagaaatcttc	411864	-	see also 20945 line
47337	CRYGN	NM_144727.1	101	cgacgcgctcgggaagatcact	411860	-	see also 20945 line
47338	CSE-C	NM_018978.1	1697	acctgtgctgctgatttctga	373985	-	see also 20946 line
47339	CSE-C	NM_018978.1	1130	taccagggggagtcacataaaa	373967	-	see also 20946 line
47340	CSMD2	NM_052896.2	2592	ctccgctatgagactataaacact	404646	-	see also 20947 line
47341	CSMD2	NM_052896.2	1472	atogtcccggtgctcatttctga	404630	-	see also 20947 line
47342	CSMD3	NM_052900.2	3791	tcgcggagactacacattagtt	404909	-	see also 20948 line
47343	CSMD3	NM_052900.2	7796	taggaacgcgagttactatttt	405056	-	see also 20948 line
47344	CSTL1	NM_138283.1	415	aacgacaccttattatcagtt	407374	-	see also 20949 line
47345	CSTL1	NM_138283.1	471	gacggagtgaggatagatga	407378	-	see also 20949 line
47346	CTAG3	NM_175745.2	743	accaactgttaacagagattttt	429228	-	see also 20950 line
47347	CTAG3	NM_175745.2	519	ctcaagaatgcactaatgaac	429223	-	see also 20950 line
47348	CTAGE-2	NM_172241.1	119	cccgattctcattcttggttt	424367	-	see also 20951 line
47349	CTCFL	NM_080618.2	1073	cacaggcgctataaacatactca	406480	-	see also 20952 line

図46 (続き)

1259

47350	CTCFL	NM_080618.2	1067	gtccgacacaggcgctataaaca	406477	-	see also 20952 line
47351	CTHRC1	NM_138455.2	495	ttcaaatagtctctaagattt	408277	-	see also 20953 line
47352	CTHRC1	NM_138455.2	560	gtcagcttggtattccattc	408281	-	see also 20953 line
47353	CTL2	NM_020428.2	467	cccggagctttgagctataag	377437	-	see also 20954 line
47354	CTL2	NM_020428.2	115	cacggaaacgcacagagatga	377425	-	see also 20954 line
47355	CTLX	NM_014312.3	305	ttcacaatggccatctgtatcc	340143	-	see also 20955 line
47356	CTLX	NM_014312.3	288	cccattcaatcctgtacttacc	340142	-	see also 20955 line
47357	CXorf15	NM_018360.1	698	agcgtacaatagacggttaag	370751	-	see also 20956 line
47358	CXorf15	NM_018360.1	1302	aacagtcgtgataaagagata	370753	-	see also 20956 line
47359	CYFIP1	NM_014608.1	1016	agcggccactacaggaaataa	341041	-	see also 5772 line
47360	CYFIP1	NM_014608.1	1670	aagagcggcttcgacataaaagt	341052	-	see also 5772 line
47361	CYFIP1	NM_014608.1	2217	ttcttgataaacgggtacatca	341067	-	see also 5772 line
47362	CYFIP2	NM_014376.1	2484	cacgcgtcaatcgtctgaaaca	340455	-	see also 5638 line
47363	CYFIP2	NM_014376.1	2426	ctgtggataaacgtttctggagc	340452	-	see also 5638 line
47364	CYLN2	NM_003388.3	2006	gtggggtcgtcgggataaatc	331651	-	see also 20959 line
47365	CYLN2	NM_003388.3	670	gacccggtggcggaagatgatg	331647	-	see also 20959 line
47366	CYorf15B	NM_032576.1	671	gggcaggtctctgtgaagtgc	400827	-	see also 20960 line
47367	CYorf15B	NM_032576.1	816	atgaagtaaaatgctactcaaaa	400828	-	see also 20960 line
47368	CYP26C1	NM_183374.1	797	ccctcgacctaatcttcacagt	435691	-	see also 20961 line
47369	CYP26C1	NM_183374.1	791	gtgatccctcgacctaatcatt	435689	-	see also 20961 line
47370	D2LIC	NM_015522.2	406	gacaccttaaggacgtttctct	353690	-	see also 20962 line
47371	D2LIC	NM_015522.2	409	accttaaggacgtttctctct	353692	-	see also 20962 line
47372	D2LIC	NM_015522.2	408	caccttaaggacgtttctctct	353691	-	see also 20962 line
47373	D6S2654E	NM_012135.1	442	gcgcgagcgcaagcgtaagatct	337692	-	see also 20963 line
47374	D6S2654E	NM_012135.1	444	gcgcgagcgcaagcgtaagatctcc	337693	-	see also 20963 line
47375	DAB2IP	NM_032552.1	1791	aacgatcttcgggtctgtaga	400672	-	see also 20964 line
47376	DAB2IP	NM_032552.1	2751	atgaacgcgcagtggttagaaga	400680	-	see also 20964 line
47377	DARP	NM_144994.5	403	acctgattgacaagtaactgaca	412504	-	see also 20965 line
47378	DATF1	NM_022105.2	2068	tcctcgccgtcactgtgtgata	382362	-	see also 20966 line
47379	DATF1	NM_022105.2	2071	ctcgccgtcactgtgtgtataat	382364	-	see also 20966 line
47380	DBC-1	NM_021174.4	1320	gcacgtgaccccgcttatgttc	380568	-	see also 20967 line
47381	DBC-1	NM_021174.4	1627	ggcgctttgcgcgagttcagtag	380570	-	see also 20967 line
47382	DBC1	NM_014618.1	1150	gtcggccttgagctatcatgt	341351	-	see also 5789 line
47383	DBC1	NM_014618.1	1306	ttggccgaagctataaggacc	341354	-	see also 5789 line
47384	DBCCR1L	NM_199051.1	1667	gcgcgagtcaccgcatcatat	440692	-	see also 10360 line
47385	DBCCR1L	NM_199051.1	1666	gcgcgagtcaccgcatcatata	440691	-	see also 10360 line
47386	DC-UbP	NM_152277.1	541	aggtagtcagcgggtgttttt	415304	-	see also 9826 line
47387	DC-UbP	NM_152277.1	540	caagtagtcagcgggtgttttt	415303	-	see also 9826 line
47388	DC12	NM_020187.1	108	ggcggaacatctctgcaactacc	375872	-	see also 20971 line
47389	DC12	NM_020187.1	443	gggaagacgcgtgtgtgttttag	375877	-	see also 20971 line
47390	DC13	NM_020188.1	210	aagaatgcaactgtctgtgatac	375883	-	see also 20972 line
47391	DC13	NM_020188.1	291	atattgacggaggttgagaaaa	375887	-	see also 20972 line
47392	DC6	NM_020189.4	100	ggcagcggattaaccaaaagt	375894	-	see also 20973 line
47393	DC6	NM_020189.4	98	ggagcagcgattaaccaaaagt	375893	-	see also 20973 line

図46 (続き)

1260

47394	DCLRE1A	NM_014881.1	1255	aagatacgtccagtttatgagg	345137	-	see also 6075 line
47395	DCLRE1A	NM_014881.1	2011	ttcttaactcgggataagtatga	345158	-	see also 6075 line
47396	DCLRE1B	NM_022836.2	347	atgtcaacctacaggtatctaaag	384492	-	see also 20975 line
47397	DCLRE1B	NM_022836.2	912	gaccacacctacaggtatctacc	384506	-	see also 20975 line
47398	DCLRE1C	NM_022487.1	650	agcggcttatggctatgaatc	383397	-	see also 20976 line
47399	DCLRE1C	NM_022487.1	614	tcggagccctacacctgttgt	383395	-	see also 20976 line
47400	DCNP1	NM_130848.1	844	gcctggcttcgcacttgatc	407096	-	see also 20977 line
47401	DCNP1	NM_130848.1	623	cccggaaacatctgggttagt	407093	-	see also 20977 line
47402	DCOHP	NM_032151.2	288	caccagaagtgaacctgaatgata	398390	-	see also 20978 line
47403	DCOHP	NM_032151.2	170	aggaatggttggaattaagtga	398385	-	see also 20978 line
47404	DCP1B	NM_152640.3	1490	gcacgcttgccgcctaagtttc	419445	-	see also 20979 line
47405	DCP1B	NM_152640.3	1179	aacaagtgtgacctgatacacc	419442	-	see also 20979 line
47406	DCP2	NM_152624.3	544	cagggtgacctagcaaatcagg	419115	-	see also 20980 line
47407	DCP2	NM_152624.3	851	ttggttgaccctaacaaattt	419124	-	see also 20980 line
47408	DDA3	NM_032636.4	555	ctcgactccggagtaagttagg	401158	-	see also 20981 line
47409	DDA3	NM_032636.4	551	acgcctcgacctcggagtaaga	401157	-	see also 20981 line
47410	DDX27	NM_017895.6	1327	atccggatccggcctaactgtga	363686	-	see also 20982 line
47411	DDX27	NM_017895.6	115	ctcggttaactcgggaaccatagg	363673	-	see also 20982 line
47412	DEADC1	NM_182503.1	754	gtggagccgtgcattatgtgtgc	433981	-	see also 20983 line
47413	DEADC1	NM_182503.1	777	agctctctccgcctgatgaaaa	433982	-	see also 20983 line
47414	DEPC-1	NM_139178.1	606	ctgagccacagagtgatgacaga	409432	-	see also 20984 line
47415	DEPC-1	NM_139178.1	650	ctgtcaaccacagagtgatctag	409434	-	see also 20984 line
47416	DERP6	NM_015362.2	127	aaggcgtgtcaagaatactgc	351822	-	see also 20985 line
47417	DERP6	NM_015362.2	234	tcgctgtgttaacatgaactct	351825	-	see also 20985 line
47418	DEX1	NM_014015.3	621	cccgctcggccgcttaogatgc	339143	-	see also 20986 line
47419	DEX1	NM_014015.3	647	ctcgagctcgagctcttgatg	339144	-	see also 20986 line
47420	DIBD1	NM_024740.1	215	cggagcaccgagcagcagattatct	389771	-	see also 8718 line
47421	DIBD1	NM_024740.1	863	cgtgtatggccctacatactatt	389790	-	see also 8718 line
47422	DIO3OS	NM_022345.2	661	cccctcacgtggcctcttgaaag	382624	-	-
47423	DIP13B	NM_018171.2	1560	acgcggattcaattcgatatgt	367956	-	see also 20988 line
47424	DIP13B	NM_018171.2	1559	aacgcgattcaattcgatatgt	367955	-	see also 20988 line
47425	DIRC1	NM_052952.1	520	ctgtgagctaaagtgtctaac	405503	-	see also 20989 line
47426	DIRC1	NM_052952.1	526	ggctaaagtgtcttaactcattg	405504	-	see also 20989 line
47427	DIRC2	NM_032839.1	788	agcagcagcgcgaatataaaga	401897	-	see also 9304 line
47428	DIRC2	NM_032839.1	810	atgcatagagcgtgtgttat	401900	-	see also 9304 line
47429	DIRC2	NM_032839.1	939	atoggagaagcgtgttgatatta	401905	-	see also 9304 line
47430	DISP2	NM_033510.1	2914	tcgcgctgtgtgttctactgc	404048	-	see also 20991 line
47431	DISP2	NM_033510.1	4270	ctcacacgtcaggtctagcagc	404054	-	see also 20991 line
47432	DJ1042K1	NM_015705.3	581	gtcctaccgcgagattgtgaaga	355216	-	see also 6539 line
47433	DJ1042K1	NM_015705.3	268	cagagcaaacagagttctactac	355215	-	see also 6539 line
47434	DJ12208.2	NM_020466.3	207	tgccaccgagagagatacaatcc	377729	-	see also 20993 line
47435	DJ12208.2	NM_020466.3	262	aaggagttagaaaaaacattgc	377730	-	see also 20993 line

図46 (続き)

1261

47436	DJ167A19.1	NM_018982.3	979	cacgcgaactctgtgattatcc	374005	-	see also 7641 line
47437	DJ167A19.1	NM_018982.3	801	tgccgaattccgaaagtgtcc	374002	-	see also 7641 line
47438	DJ465N24.2.1	NM_020317.2	344	gcgtctcagccgggttttctcc	376480	-	see also 20995 line
47439	DJ465N24.2.1	NM_020317.2	425	ggcgctactcgcggtcatactcg	376482	-	see also 20995 line
47440	DJ465N24.2.1	NM_020317.2	833	gcgttggaatagggtatcaagt	376492	-	see also 20995 line
47441	DJ667H12.2	NM_019605.2	555	ctcgaagatctgtcattataa	375489	-	see also 20996 line
47442	DJ667H12.2	NM_019605.2	490	aacgagccccacatcctttatag	375486	-	see also 20996 line
47443	DJ79P11.1	NM_032621.1	117	aacgagcgttaacaatctcatc	401125	-	see also 20997 line
47444	DJ79P11.1	NM_032621.1	118	acgagcgttaacaatctcatcg	401126	-	see also 20997 line
47445	DKFZp313	NM_173826.1	420	tcgggatttcgagcagtcataatt	428404	-	see also 20998 line
47446	DKFZp313	NM_173826.1	392	ctcggatggccaggaaaccttta	428399	-	see also 20998 line
47447	DKFZp313	NM_173826.1	1251	ctcgggcatcttaattatccaac	428431	-	see also 20998 line
47448	DKFZp434	NM_021185.3	1098	atcgcgggtgagtagtatactact	380669	-	see also 20999 line
47449	DKFZp434	NM_021185.3	1095	tacatcggcgggtgagtagtatactct	380668	-	see also 20999 line
47450	DKFZp434	NM_021185.3	2342	ttcgattacgctcaaggataaaaa	380696	-	see also 20999 line
47451	DKFZp434	NM_032132.2	596	ctcgggctttaccctaattgatgt	398069	-	see also 21000 line
47452	DKFZp434	NM_032132.2	893	caggagcattatacaagtgatga	398078	-	see also 21000 line
47453	DKFZp434	NM_032140.1	331	gacgctctgctcgacaactaca	398321	-	see also 21001 line
47454	DKFZp434	NM_032140.1	1271	gaggccatcaagatctttctctcg	398325	-	see also 21001 line
47455	DKFZp434	NM_017609.2	114	agcgtccaggccctatttgtcact	359415	-	see also 21002 line
47456	DKFZp434	NM_017609.2	1795	tagtcgactcagacaacttcaag	359432	-	see also 21002 line
47457	DKFZp434	NM_015395.1	2567	cacacggcctgggtatatacacagg	352211	-	see also 21003 line
47458	DKFZp434	NM_015395.1	2818	ttcgcactggttcgtggatttca	352215	-	see also 21003 line

1262

図46 (続き)

47459	DKFZp434 B0417	NM_013377.2	2269	gccgtgcgcgtgaggttcataatg	338898	-	see also 21004 line
47460	DKFZp434 B0417	NM_013377.2	1211	gagcctgtatctatgtgaataca	338878	-	see also 21004 line
47461	DKFZp434 B1231	NM_178275.3	881	gacggcagggttgacatctatgg	430685	-	see also 21005 line
47462	DKFZp434 B1231	NM_178275.3	1241	gtccaggattccctaccattgco	430687	-	see also 21005 line
47463	DKFZp434 B168	NM_015434.1	2625	accaggactcttcgcaaaattc	352835	-	see also 21006 line
47464	DKFZp434 B168	NM_015434.1	2605	gtggttcagcacggatctaaacc	352834	-	see also 21006 line
47465	DKFZp434 B227	NM_032263.2	1325	gccgggactcatacagagattga	399125	-	see also 21007 line
47466	DKFZp434 B227	NM_032263.2	966	tgcaagattcggccacttaaac	399117	-	see also 21007 line
47467	DKFZp434 C0328	NM_017577.1	2225	cagaaaaacgtttgatctactaaa	359340	-	see also 21008 line
47468	DKFZp434 C0328	NM_017577.1	1516	aagtcgggaagcagcagattttatt	359316	-	see also 21008 line
47469	DKFZp434 C171	NM_015621.1	759	cactccactgaggtctctttcc	354617	-	see also 21009 line
47470	DKFZp434 C1714	NM_152834.2	313	tgcgatgaactggagattatttt	421378	-	see also 21010 line
47471	DKFZp434 C1714	NM_152834.2	361	ggggatgttcattctctatagtat	421384	-	see also 21010 line
47472	DKFZp434 C245	NM_015426.2	567	atgtgtccactcgtatttgagc	352632	-	see also 21011 line
47473	DKFZp434 C245	NM_015426.2	870	ttcaagaacgggggaggtattttg	352636	-	see also 21011 line
47474	DKFZp434 D1335	NM_015578.1	929	tcggcgagatggggcccaatgaaat	354309	-	see also 21012 line
47475	DKFZp434 D1335	NM_015578.1	367	cactaggctcatcgactctttca	354299	-	see also 21012 line
47476	DKFZp434 D146	NM_015595.2	2009	aagttggttcgactatgcaatga	354392	-	see also 21013 line
47477	DKFZp434 D146	NM_015595.2	291	gccccaacgggttacttaattacg	354363	-	see also 21013 line
47478	DKFZp434 E2220	NM_017612.2	362	gactgacccgagtggaattatgg	359535	-	see also 7049 line
47479	DKFZp434 E2220	NM_017612.2	360	ctgactcgaccgagtggaattatt	359534	-	see also 7049 line
47480	DKFZp434 F0318	NM_030817.1	489	tccatcgccctgtacaaattctgt	395349	-	see also 21015 line

1263

図46 (続き)

47481	DKFZP434 F0318	NM_030817.1	323	gtccgatctctcgctgattctt	395344	-	see also 21015 line
47482	DKFZP434 F0318	NM_030817.1	485	cgctccatcgccctgtacaatt	395347	-	see also 21015 line
47483	DKFZP434 F1017	NM_032135.2	346	agctaccatcgattgtgtaata	398197	-	see also 21016 line
47484	DKFZP434 F1017	NM_032135.2	807	atgccctgaacataaactcgctg	398213	-	see also 21016 line
47485	DKFZP434 F1719	NM_032248.1	683	tggcagtgagccctgtttgttgc	399011	-	see also 21017 line
47486	DKFZP434 F1719	NM_032248.1	686	cagtgagccctgtttgttctga	399012	-	see also 21017 line
47487	DKFZP434 F2021	NM_015412.1	1266	aactagagtgataaaaacgtct	352326	-	see also 21018 line
47488	DKFZP434 F2021	NM_015412.1	1627	ttcgtgacggtgatgcaataaa	352333	-	see also 21018 line
47489	DKFZP434 G0522	NM_017566.2	1014	gcctgtcggcgagtttccaac	359128	-	see also 21019 line
47490	DKFZP434 G0522	NM_017566.2	662	aacgacgtgtatgcctttaatct	359125	-	see also 21019 line
47491	DKFZP434 G0625	NM_181775.2	575	ggccgctcaatcggaattacaagc	433143	-	see also 21020 line
47492	DKFZP434 G0625	NM_181775.2	1623	tcggacatggtggtggaattcc	433155	-	see also 21020 line
47493	DKFZP434 G072	NM_032149.1	362	gggcaaaaggcagccattatg	398354	-	see also 21021 line
47494	DKFZP434 G072	NM_032149.1	1215	aagcctccactactattataagaag	398380	-	see also 21021 line
47495	DKFZP434 G118	NM_032266.1	284	ggccgatgttcaggacttaattg	399165	-	see also 21022 line
47496	DKFZP434 G118	NM_032266.1	2417	aggagccatcgtaggatttctga	399213	-	see also 21022 line
47497	DKFZP434 G156	NM_022742.2	2636	aactgtcgcaagacttatgatac	383819	-	see also 21023 line
47498	DKFZP434 G156	NM_022742.2	988	ctctgaaccatccggtagtttag	383801	-	see also 21023 line
47499	DKFZP434 H0115	NM_031421.1	135	ctctacctgtgcgggaatttc	396891	-	see also 21024 line
47500	DKFZP434 H0115	NM_031421.1	1463	gagagcaaaagcttgtcataaca	396910	-	see also 21024 line
47501	DKFZP434 H0820	NM_022833.1	505	tccttatgcgcgtactactact	384479	-	see also 21025 line
47502	DKFZP434 H0820	NM_022833.1	1198	ggcgtaccacccctgaagatgc	384485	-	see also 21025 line

1264

図46 (続き)

47503	DKFZP434 H2010	NM_032129.1	1780	acctctgggacgagacttgtct	397954	-	see also 21026 line
47504	DKFZP434 H2010	NM_032129.1	422	cggtctcggaaggactacatttc	397952	-	see also 21026 line
47505	DKFZp434 H2215	NM_017559.1	157	aaccggacogtactacaaaagg	359077	-	see also 21027 line
47506	DKFZp434 H2215	NM_017559.1	703	gagttgcccggagaaagaatcg	359086	-	see also 21027 line
47507	DKFZp434 099	NM_032269.3	1244	gacgacagtgaggataaacgata	399237	-	see also 21028 line
47508	DKFZp434 099	NM_032269.3	1646	atggaccggtgcatgagtttta	399242	-	see also 21028 line
47509	DKFZp434 099	NM_032269.3	601	ctcgaccactgtgtcaagtacc	399229	-	see also 21028 line
47510	DKFZp434 1916	NM_032245.1	407	aactgatcttctatgtttcaata	399009	-	see also 21030 line
47511	DKFZP434 12117	NM_031478.3	276	tcctctgcttacacgcaatttgc	397175	-	-
47512	DKFZP434 12117	NM_031478.3	237	aactctgcaagcacatcattga	397174	-	see also 47511 line
47513	DKFZP434 J0113	NM_032130.1	2674	ctctccagttacgcaatagaaa	397969	-	see also 21031 line
47514	DKFZP434 J0113	NM_032130.1	2675	tcctccagttacgcaatagaaaa	397970	-	see also 21031 line
47515	DKFZP434 J0113	NM_032130.1	175	aactcgggctcaagaggatattt	397955	-	see also 21031 line
47516	DKFZP434 J046	NM_015671.2	1452	agctcccggtgccaggatatacag	354963	-	see also 21032 line
47517	DKFZP434 J046	NM_015671.2	885	tgcgcaggtccacacagaagatga	354960	-	see also 21032 line
47518	DKFZP434 J154	NM_015610.1	1216	ctgctctgctagccacaaattcaga	354612	-	see also 6509 line
47519	DKFZP434 J154	NM_015610.1	848	gacgcgaagtggaaactaaacttgc	354603	-	see also 6509 line
47520	DKFZP434 K1172	NM_031290.1	279	gccattccggctgataaaggaaaga	396520	-	see also 21034 line
47521	DKFZP434 K1172	NM_031290.1	419	ttcgcgaagagatgaaaattttt	396526	-	see also 21034 line
47522	DKFZP434 K1172	NM_031290.1	414	ggcttttcggaagagatgaaaa	396525	-	see also 21034 line
47523	DKFZP434 K1421	NM_032141.1	1029	accgtgattaccggaaaagaaagg	398343	-	see also 21035 line
47524	DKFZP434 K1421	NM_032141.1	952	aacgtcggaggagacatgagaaaa	398338	-	see also 21035 line

1265

図46 (続き)

47525	DKFZP434 K1421	NM_032141.1	1028	gacctgattaccggaaagaaag	398342	-	see also 21035 line
47526	DKFZp434 K1815	NM_152892.1	1410	gcacaaccaggactacgaattcc	421511	-	see also 21036 line
47527	DKFZp434 K1815	NM_152892.1	1409	tgcccaaccaggactacgaattc	421510	-	see also 21036 line
47528	DKFZp434 K2435	NM_032256.1	1161	cactaacctcggactataaaa	399057	-	see also 21037 line
47529	DKFZp434 K2435	NM_032256.1	1159	caactaacctcggactataaa	399056	-	see also 21037 line
47530	DKFZP434 L0117	NM_022778.2	1842	tctggcagaagcgatagattc	384158	-	see also 8469 line
47531	DKFZP434 L0117	NM_022778.2	1857	tagattcgcctccaaaagattgt	384160	-	see also 8469 line
47532	DKFZP434 L0718	NM_032139.1	1099	aacggagatccctaattgatgg	398287	-	see also 21039 line
47533	DKFZP434 L0718	NM_032139.1	573	gacactccgagcgattgacagg	398275	-	see also 21039 line
47534	DKFZP434 L0718	NM_032139.1	642	gcctcgtcaccacacatagactca	398279	-	see also 21039 line
47535	DKFZp434 L0850	NM_017558.1	2168	gtgctggcgctcttaattacagc	359051	-	see also 7032 line
47536	DKFZp434 L0850	NM_017558.1	2929	acgtcggatccacagttgttct	359069	-	see also 7032 line
47537	DKFZp434 L142	NM_016613.4	1411	atcgttagatatacaaatgtgt	358418	-	see also 21041 line
47538	DKFZP434 L142	NM_016613.4	1807	acggggtcaagattatcacctatg	358433	-	see also 21041 line
47539	DKFZP434 L1717	NM_032136.3	848	aggtcggggtattccaaatattg	398240	-	see also 21042 line
47540	DKFZP434 L1717	NM_032136.3	847	aaggctcggggtattccaaatatt	398239	-	see also 21042 line
47541	DKFZp434 M202	NM_182499.1	506	taccacotgggggattattggaca	433968	-	see also 21043 line
47542	DKFZp434 N035	NM_032262.1	392	aagcaatgaaagagcttatcttc	399106	-	see also 21044 line
47543	DKFZp434 N035	NM_032262.1	511	ctctaggcataccacataatacc	399108	-	see also 21044 line
47544	DKFZp434 N1415	NM_032133.2	1616	ttogaaccatctactcttatta	398111	-	see also 21045 line
47545	DKFZp434 N1415	NM_032133.2	292	cacattctcgcctactgaaaa	398092	-	see also 21045 line
47546	DKFZP434 O047	NM_015594.1	2925	gggagatgtggcagataatagg	354355	-	see also 21046 line

1266

図46 (続き)

47547	DKFZP434 O047	NM_015594.1	2924	agggagatgtggcagagataatag	354354	-	see also 21046 line
47548	DKFZp434 O0527	NM_194302.1	1846	accccacggcagatttatgagc	436653	-	see also 21047 line
47549	DKFZp434 O0527	NM_194302.1	702	tccagcccaacgagagacttacg	436642	-	see also 21047 line
47550	DKFZP434 P0316	NM_032134.1	3160	tccgtgacccgagcttattacga	398172	-	see also 21048 line
47551	DKFZP434 P0316	NM_032134.1	3087	agcctggaccgacatggaattc	398168	-	see also 21048 line
47552	DKFZp434 P055	NM_173466.1	1330	aaggcgaataatgctcagaatat	424867	-	see also 21049 line
47553	DKFZp434 P055	NM_173466.1	1081	ttgcattgctgaacgcataagaagc	424862	-	see also 21049 line
47554	DKFZp451 M2119	NM_182585.1	3326	gggaagttctgtaggcttataac	434522	-	see also 21050 line
47555	DKFZp451 M2119	NM_182585.1	3264	ctgtgtgcatggcccatattgtgc	434521	-	see also 21050 line
47556	DKFZp547 A023	NM_018704.1	1756	ggcacagactatcgaatcttagc	372721	-	see also 7571 line
47557	DKFZp547 A023	NM_018704.1	1452	ctcttcgccgtactactactaagc	372716	-	see also 7571 line
47558	DKFZp547 B1713	NM_152379.1	625	tggcgctaaagcctcctaaagaag	416002	-	see also 21052 line
47559	DKFZp547 B1713	NM_152379.1	477	aagcagcctaactcctagtgtttt	415997	-	see also 21052 line
47560	DKFZp547 B1713	NM_152379.1	452	gacgccagatcatacaagaaca	415996	-	see also 21052 line
47561	DKFZp547 C176	NM_018712.2	367	cccgacgctattgaaaaactat	372785	-	see also 7574 line
47562	DKFZp547 C176	NM_018712.2	512	tgcgtagagaggcctatgattct	372790	-	see also 7574 line
47563	DKFZp547 D2210	NM_153685.2	439	ctctgccaatcccgatttctgg	423472	-	-
47564	DKFZp547 D2210	NM_153685.2	612	agcttatgtcacaaattaccatc	423474	-	see also 47563 line
47565	DKFZp547 D2210	NM_153685.2	608	ccccagctctatgtcacaaattac	423473	-	see also 47563 line
47566	DKFZp547 E052	NM_032276.2	802	ccccaggaaggcaataactacttta	399334	-	see also 21054 line
47567	DKFZp547 E052	NM_032276.2	643	tgccttgggtcgaaactgtgtgg	399329	-	see also 21054 line
47568	DKFZP547 E1010	NM_015607.2	365	ctctaaatgagcgctttactaat	354467	-	see also 6506 line

1267

図46 (続き)

47569	DKFZp547 G0215	NM_173643.1	921	aagtataccataactcaaatga	426935	-	see also 21056 line
47570	DKFZp547 G0215	NM_173643.1	1048	aaccacgaagtgtaattagtagt	426936	-	see also 21056 line
47571	DKFZp547 G0215	NM_173643.1	911	agccttgaagaagtataaccata	426934	-	see also 21056 line
47572	DKFZp564 A022	NM_030954.2	388	tgccactcgacagcaggtttaca	395673	-	see also 21057 line
47573	DKFZp564 A022	NM_030954.2	654	cagggaacccccagatattatg	395682	-	see also 21057 line
47574	DKFZp564 A176	NM_032242.1	488	cactttagcagtagtctgtttaca	399007	-	-
47575	DKFZp564 B1162	NM_031305.1	1206	gtcctactcggggaggttaacaaaa	396634	-	see also 21058 line
47576	DKFZp564 B1162	NM_031305.1	1774	ctgaaggtatctgtaccacaaat	396645	-	see also 21058 line
47577	DKFZp564 D116	NM_015631.1	1672	tccaacccccaagctcatgtatc	354735	-	see also 6524 line
47578	DKFZp564 D116	NM_015631.1	1695	aggagttcggattctctataccagt	354738	-	see also 6524 line
47579	DKFZp564 D172	NM_032042.3	923	aacgagaagccgatgaataaaaa	397719	-	see also 21060 line
47580	DKFZp564 D172	NM_032042.3	643	caggtacagtcatoctatgatag	397711	-	see also 21060 line
47581	DKFZp564 G2022	NM_015497.2	536	aaccgcaatgcataaaccattgc	353592	-	see also 6438 line
47582	DKFZp564 G2022	NM_015497.2	167	tccgataccgctgggggaaaaatt	353577	-	see also 6438 line
47583	DKFZp564 I922	NM_015419.1	6660	gtgcgtagctcgaaataaagggtg	352501	-	see also 21062 line
47584	DKFZp564 I922	NM_015419.1	2554	gagcacgttttgggtaccatttc	352409	-	see also 21062 line
47585	DKFZp564 J047	NM_032126.1	195	ggccgacacaaacatttgatta	397901	-	see also 21063 line
47586	DKFZp564 J047	NM_032126.1	229	aacaagaaggggcgggtttaccaaa	397903	-	see also 21063 line
47587	DKFZp564 J047	NM_032126.1	591	aagacgatggcaccacacaaaaaac	397910	-	see also 21063 line
47588	DKFZp564 K0322	NM_032040.1	2229	gacgttttcgtgggtttgcaag	397685	-	see also 21064 line
47589	DKFZp564 K0322	NM_032040.1	789	tcgggggaggagcgtcgactatttg	397678	-	see also 21064 line
47590	DKFZp564 K0822	NM_030796.2	619	cccgtagcgaacaggtatgaagg	395099	-	see also 21065 line

1268

図46 (続き)

47591	DKFZP564 K0822	NM_030796.2	222	gactctccaacctattata	395097	-	see also 21065 line
47592	DKFZP564 K1964	NM_015544.1	394	aactggacgatgtgcttacc	353844	-	see also 21066 line
47593	DKFZP564 K1964	NM_015544.1	316	tgctgcagcgtatgattctaa	353843	-	see also 21068 line
47594	DKFZP564 K2062	NM_015421.1	36	ctccgagctgtcgtaggttgc	352583	-	see also 21067 line
47595	DKFZP564 K2062	NM_015421.1	280	tgccaaccagctattactgtac	352589	-	see also 21067 line
47596	DKFZP564 M082	NM_014042.1	494	gacgagatgaatgactacaatga	339374	-	see also 21068 line
47597	DKFZP564 M082	NM_014042.1	394	gccagcctcagagcactatgatg	339373	-	see also 21068 line
47598	DKFZP564 M082	NM_014042.1	262	gactgagactctgtggttaatc	339371	-	see also 21068 line
47599	DKFZP564 O043	NM_020319.1	397	tgcgacatggagccgatgtaaat	376505	-	see also 7832 line
47600	DKFZP564 O043	NM_020319.1	375	ctcgatatgtgcaaatctact	376504	-	see also 7832 line
47601	DKFZP564 O043	NM_020319.1	404	tgagccgatgaaattgtcatc	376507	-	see also 7832 line
47602	DKFZP564 O0463	NM_015420.4	925	gtcacggtgatggagtcgaattgc	352534	-	see also 6405 line
47603	DKFZP564 O0463	NM_015420.4	1029	cgggaattgtatcgtacataca	352540	-	see also 6405 line
47604	DKFZP564 O0523	NM_032120.1	87	gacacacggggccaaatctcgaga	397804	-	see also 21071 line
47605	DKFZP564 O0523	NM_032120.1	999	ttgaatacaacggcggaattaat	397832	-	see also 21071 line
47606	DKFZP564 O0823	NM_015393.1	507	agcgggtggagtcacttaacaac	352196	-	see also 21072 line
47607	DKFZP564 O0823	NM_015393.1	186	ctcttcgctcttgcactttaac	352189	-	see also 21072 line
47608	DKFZP564 O1604	NM_030800.1	527	tcccttccacgagagattataat	395153	-	see also 21073 line
47609	DKFZP564 O1664	NM_030800.1	1661	aggccgctctagcctttgttttc	395183	-	see also 21073 line
47610	DKFZP564 O1863	NM_015633.1	522	ggcaacggtccacgttagttatgg	354746	-	see also 21074 line
47611	DKFZP564 O1863	NM_015633.1	1038	tgcgtcggaagtaactctttgt	354765	-	see also 21074 line
47612	DKFZP566 A1524	NM_030797.1	399	gagatccgagatgcaattcaaaa	395102	-	see also 21075 line

1269

図46 (続き)

47613	DKFZP566 A1524	NM_030797.1	662	ccggctattcagaatgaattca	395108	-	see also 21075 line
47614	DKFZP566 B183	NM_015509.2	316	tttagccgtaatttttaattcc	353628	-	see also 6445 line
47615	DKFZP566 B183	NM_015509.2	690	caccaccattccggaatttaac	353640	-	see also 6445 line
47616	DKFZP566 B183	NM_015509.2	691	accacccattccggaatttaac	353641	-	see also 6445 line
47617	DKFZP566 C0424	NM_015609.1	365	gacagcagcagcccaataatgt	354589	-	see also 6508 line
47618	DKFZP566 C0424	NM_015609.1	103	tcccaaaagtcccatgtgattc	354588	-	see also 6508 line
47619	DKFZP566 D1346	NM_030816.1	425	ccctcggcgggtaccttaaccaga	395299	-	see also 21077 line
47620	DKFZP566 D1346	NM_030816.1	716	ctctcatccgcacgcacaatc	395305	-	see also 21077 line
47621	DKFZP566 D193	NM_015391.1	234	gacagacttagccttacagtacc	352188	-	see also 21078 line
47622	DKFZP566 D193	NM_015391.1	196	ggcaccacagaatctgtcaaga	352184	-	see also 21078 line
47623	DKFZP566 D193	NM_015391.1	199	accacagaatctgtcaagaaca	352185	-	see also 21078 line
47624	DKFZP566 F0546	NM_015653.1	1258	atcaaccacgggagactatttc	354936	-	see also 21079 line
47625	DKFZP566 F0546	NM_015653.1	687	aacgcccgtgtgaacaaaaatg	354932	-	see also 21079 line
47626	DKFZP566 F0546	NM_015653.1	684	aagaacgcccgtgtgaacaaaa	354931	-	see also 21079 line
47627	DKFZP566 F084	NM_015448.1	333	ccctatcctaaggatgtctatag	353071	-	see also 21080 line
47628	DKFZP566 F084	NM_015448.1	327	aacctccctatcctaaggatgt	353069	-	see also 21080 line
47629	DKFZP566 F2124	NM_015630.2	672	tgcacaaactgaaagaatcgttaag	354649	-	see also 6510 line
47630	DKFZP566 F2124	NM_015630.2	726	aactgagacgagaatttagtaga	354654	-	see also 6510 line
47631	DKFZP566 K1924	NM_015463.1	476	cacgctgcaggtcgagaatttt	353312	-	see also 21082 line
47632	DKFZP566 K1924	NM_015463.1	633	accatgccttcacagacattgg	353315	-	see also 21082 line
47633	DKFZP566 M1046	NM_032127.1	1449	gacacccctgtgtcgtgtattgg	397934	-	see also 9079 line
47634	DKFZP566 M114	NM_032128.1	236	ggcgatcgtcggagctaaactgg	397942	-	see also 21084 line

図 46 (続き)

1270

47635	DKFZP566 M114	NM_032128.1	333	ttttaaaccagtggaactatcatt	397945	-	see also 21084 line
47636	DKFZP566 N034	NM_030923.2	909	gacacgtcaactacagagatttg	395504	-	see also 21085 line
47637	DKFZP566 N034	NM_030923.2	825	gggcagcatagggcgtctgatcg	395501	-	see also 21085 line
47638	DKFZP572 C163	NM_033160.2	478	aactctgtgtgagcagtgatgat	403541	-	-
47639	DKFZP586 C1924	NM_032273.2	257	ttcgacgcacatcttggaatgtgaca	399312	-	see also 21086 line
47640	DKFZP586 C1924	NM_032273.2	198	tggatcgggttttatgttggaataa	399308	-	see also 21086 line
47641	DKFZP586 D0919	NM_015433.1	665	gccccatggcaccatctatctgg	352771	-	see also 21087 line
47642	DKFZP586 D0919	NM_015433.1	382	gacatgctctatoccatgtctacc	352767	-	see also 21087 line
47643	DKFZP586 L0724	NM_152747.1	2132	gggaactgtgtacottttatcatg	420447	-	see also 21088 line
47644	DKFZP586 L0724	NM_152747.1	1987	tagactggatagagcagatcaaga	420444	-	see also 21088 line
47645	DKFZP586 L0724	NM_015462.2	244	ttgtacacgataataagggtttta	353300	-	see also 21089 line
47646	DKFZP586 L0724	NM_015462.2	629	tgcattctgtagatcggaattca	353306	-	see also 21089 line
47647	DKFZP586 M1019	NM_015603.1	1079	accatccaccgcctatgatgacc	354460	-	see also 21090 line
47648	DKFZP586 M1019	NM_015603.1	212	ggctcttcggcgggaagaatgagg	354458	-	see also 21090 line
47649	DKFZP586 M1120	NM_031294.2	1387	tggtaggaactgttttatogaaaaat	396579	-	see also 21091 line
47650	DKFZP586 M1120	NM_031294.2	1551	atcgataaagatacagattgttaa	396582	-	see also 21091 line
47651	DKFZP586 M1523	NM_015476.1	744	agcgttatactggcatttttctca	353425	-	see also 21092 line
47652	DKFZP586 M1523	NM_015476.1	627	ctctcgcagtgatgatttgagc	353423	-	see also 21092 line
47653	DKFZP586 N0721	NM_015400.1	727	atggcatgacgatgtgaagtaa	352294	-	see also 21093 line
47654	DKFZP586 N0721	NM_015400.1	732	atgcacgtatgtaagtaactgg	352297	-	see also 21093 line
47655	DKFZP586 O0120	NM_014077.1	311	cacactcacggcagcattacgaca	339521	-	-
47656	DKFZP586 O0120	NM_014077.1	136	aagcaatgggaacagagcaaaaag	339518	-	see also 47655 line

1271

図46 (続き)

47657	DKFZp586 O0120	NM_014077.1	137	agcaatgggaacgagcaaaaaga	339519	-	see also 47655 line
47658	DKFZp667 B1218	NM_177966.3	1155	gaggttaccgcgcaggttttc	430321	-	see also 21094 line
47659	DKFZp667 B1218	NM_177966.3	1156	aggttgaccgcgcaggttttct	430322	-	see also 21094 line
47660	DKFZp686 A17109	NM_198465.1	3801	atctatacctctggattcgtaga	438173	-	see also 21095 line
47661	DKFZp686 A17109	NM_198465.1	3972	ctgttgggaaccccgatctaact	438177	-	see also 21095 line
47662	DKFZp686 B0797	NM_198539.1	1306	gtcactctgttaccgtacatatga	439306	-	see also 21096 line
47663	DKFZp686 B0797	NM_198539.1	1311	ctgttaccgtacatatgagaagt	439307	-	see also 21096 line
47664	DKFZp686 B2197	NM_194319.1	1573	ctcgacactgtagaatgtgtaat	436841	-	see also 21097 line
47665	DKFZp686 B2197	NM_194319.1	1479	tccacacttgtcaacataatag	436840	-	see also 21097 line
47666	DKFZp686 B2197	NM_194319.1	966	agccgtctcgaactcttataga	436836	-	see also 21097 line
47667	DKFZp686 G0786	NM_198460.1	1829	aacgtatgattgatactacaaaa	437915	-	see also 21098 line
47668	DKFZp686 G0786	NM_198460.1	625	tggacagtcacgggaatttcactct	437901	-	see also 21098 line
47669	DKFZp686 L1814	NM_194282.1	2148	atctgatcgcagctcatagcaaa	436281	-	see also 10306 line
47670	DKFZp686 L1814	NM_194282.1	1671	gccacagcaaacggcttatcatgc	436269	-	see also 10306 line
47671	DKFZp686 L1814	NM_194282.1	1182	tgcaggtaggggtctttcacagt	436257	-	see also 10306 line
47672	DKFZp686 L20145	NM_019045.2	728	ccgggactgttagccatagatca	374673	-	see also 21100 line
47673	DKFZp686 L20145	NM_019045.2	719	agcaataacccggacgtgttagc	374672	-	see also 21100 line
47674	DKFZp686 N19164	NM_194325.1	1469	agcgaattcatgcagagataaaag	436868	-	see also 21101 line
47675	DKFZp686 N19164	NM_194325.1	1866	agcctcgtactctgttacaacata	436869	-	see also 21101 line
47676	DKFZp686 O1689	NM_182608.2	824	ggggctcacggcggttaataagg	434634	-	see also 21102 line
47677	DKFZp686 O1689	NM_182608.2	335	ccggcttgactgcoctaatagata	434629	-	see also 21102 line
47678	DKFZp727 C091	NM_015443.1	1359	gagccgtgccgcagattacaaa	352946	-	see also 21103 line

1272

図46 (続き)

47679	DKFZP727 C091	NM_015443.1	3099	tgcgttagagaaactgcaataca	352984	-	see also 21103 line
47680	DKFZp727 G131	NM_145111.1	426	tggacaatggtacagacaatttt	413495	-	see also 21104 line
47681	DKFZp727 G131	NM_145111.1	425	atggacatggtacagacaatttt	413494	-	see also 21104 line
47682	DKFZP727 M111	NM_015540.2	1945	agggcctaccctcctagctctataca	353773	-	see also 21105 line
47683	DKFZP727 M111	NM_015540.2	2063	agccgcctgtgcgcacatcatagc	353777	-	see also 21105 line
47684	DKFZp761 A078	NM_194292.1	716	tagataaagttaacggaatgaatgg	436420	-	see also 21107 line
47685	DKFZp761 A078	NM_194292.1	1707	cccaacctgtgggattggtatc	436441	-	see also 21107 line
47686	DKFZp761 A132	NM_032296.1	279	tgtctcggaggcgtggatagtttg	399510	-	-
47687	DKFZp761 B0514	NM_032289.1	2323	cggttatgagacctatataccaco	399402	-	see also 9133 line
47688	DKFZp761 B107	NM_173463.2	472	aaggctcggagacgaagaatcgc	424834	-	see also 21108 line
47689	DKFZp761 B107	NM_173463.2	770	gaggtcacaccttggaaatcaaa	424839	-	see also 21108 line
47690	DKFZp761 B1514	NM_032288.3	507	gagacgtcttaattggagttatca	399364	-	see also 21109 line
47691	DKFZp761 B1514	NM_032288.3	299	acctgacaaaatagatatgtct	399361	-	see also 21109 line
47692	DKFZp761 C121	NM_032290.1	985	tacttagtaggattgttctaatt	399431	-	see also 9136 line
47693	DKFZp761 C121	NM_032290.1	1050	tccaaagggttaactcactctaaa	399432	-	see also 9136 line
47694	DKFZp761 C169	NM_022913.1	1975	gacacgaatggcgcaactgataaga	384835	-	see also 8531 line
47695	DKFZp761 C169	NM_022913.1	1977	cacgaatggcgcaactgataagaag	384836	-	see also 8531 line
47696	DKFZp761 D221	NM_032291.1	1171	ggcctcctcgcgaatgtactatcg	399469	-	see also 9139 line
47697	DKFZp761 D221	NM_032291.1	1190	atcgccgctcaatttagaagaag	399471	-	see also 9139 line
47698	DKFZP761 E1824	NM_022486.1	1331	ctgtacctacgactgattatc	383367	-	see also 21113 line
47699	DKFZP761 E1824	NM_022486.1	1329	atctgtacctacgactgattat	383366	-	see also 21113 line
47700	DKFZP761 F241	NM_031455.2	528	ctcttgctcctacggagtcattt	397082	-	see also 21114 line

1273

図46 (続き)

47701	DKFZp761 F241	NM_031455.2	478	tccaggactactctatttttc	397081	-	see also 21114 line
47702	DKFZp761 H0421	NM_173079.1	165	tggggcaaccgcgttttttgaag	424569	-	see also 21115 line
47703	DKFZp761 H0421	NM_173079.1	166	ggggcaaccgcgttttttgaaga	424570	-	see also 21115 line
47704	DKFZp761 H0421	NM_173079.1	168	ggcaaccgcgttttttgaagagg	424571	-	see also 21115 line
47705	DKFZp761 H079	NM_144996.2	622	agctgaacgagtgcaaaaattac	412513	-	see also 21116 line
47706	DKFZp761 H079	NM_144996.2	621	gagctgaacgagtgcaaaaatta	412512	-	see also 21116 line
47707	DKFZp761 H1710	NM_031297.2	227	acctgtgggcactcctacaatgt	396589	-	see also 21117 line
47708	DKFZp761 K1423	NM_018422.1	1417	ttcccatcgggtgccataataaa	371344	-	see also 21118 line
47709	DKFZp761 K1423	NM_018422.1	1418	tcccatcgggtgccataataaag	371345	-	see also 21118 line
47710	DKFZp761 K1423	NM_018422.1	1463	tcccaaggccaggctcgattaaag	371349	-	see also 21118 line
47711	DKFZp761 L0424	NM_019590.1	1054	gcctacagcaaggcgacaataacc	375348	-	see also 7715 line
47712	DKFZp761 L0424	NM_019590.1	700	atccgggtcagcgagtgcttattg	375333	-	see also 7715 line
47713	DKFZp761 L1417	NM_152913.1	1189	ttccatgtgtacacattcact	421685	-	see also 21120 line
47714	DKFZp761 L1417	NM_152913.1	614	cactaagaccgtcctgaaaagtct	421681	-	see also 21120 line
47715	DKFZp761 L1518	NM_198075.1	1854	cacccaaggccacgagattctgg	436972	-	see also 21121 line
47716	DKFZp761 N1114	NM_181644.2	1526	ttcctacccaagacagatcaatt	432649	-	see also 21122 line
47717	DKFZp761 N1114	NM_181644.2	1527	tcctacccaagacagatcaattg	432650	-	see also 21122 line
47718	DKFZp761 N1114	NM_181644.2	1201	acgttctcgtgtcgtctttttt	432643	-	see also 21122 line
47719	DKFZp761 O0113	NM_018409.2	999	ttctacgaggtcaactatattt	371177	-	see also 21123 line
47720	DKFZp761 O0113	NM_018409.2	1095	cagctaggagtgatgtactatga	371180	-	see also 21123 line
47721	DKFZp761 O17121	NM_032287.1	650	ttgtttgcatggtgatttgtgt	399359	-	see also 21124 line
47722	DKFZp761 O17121	NM_032287.1	258	gaggtgtacagatcaactttctct	399357	-	see also 21124 line

1274

図46 (続き)

47723	DKFZp761 P1121	NM_152906.2	602	ggagagcctgacccatctcgttttg	421678	-	see also 21125 line
47724	DKFZp761 P1121	NM_152906.2	433	ggcggaggccggagggaacttgt	421675	-	see also 21125 line
47725	DKFZp762 A217	NM_152588.1	514	agccgtgctatcaagacataca	418347	-	see also 9887 line
47726	DKFZp762 A217	NM_152588.1	1689	ttctatgtggctttgtaattgc	418377	-	see also 9887 line
47727	DKFZp762 C2414	NM_178542.2	1137	ccgctacagacacagaattgg	431158	-	see also 21126 line
47728	DKFZp762 C2414	NM_178542.2	1136	cccgctacagacacagaattg	431157	-	see also 21126 line
47729	DKFZp762 D096	NM_031448.2	133	agccggttcctcagatcctaag	397053	-	-
47730	DKFZp762 D096	NM_031448.2	134	gcccgttctcgaatcctaagg	397054	-	see also 47729 line
47731	DKFZp762 D096	NM_031448.2	323	ggccgagatccagtatgatgact	397055	-	see also 47729 line
47732	DKFZp762 E1312	NM_018410.2	1710	agggccacggagggaatcgttaag	371233	-	see also 21127 line
47733	DKFZp762 E1312	NM_018410.2	1709	caggccacggagggaatcgttac	371232	-	see also 21127 line
47734	DKFZp762 G199	NM_197956.1	386	gaccccatcgcaacacgtatct	436914	-	see also 21128 line
47735	DKFZp762 G199	NM_197956.1	877	tcggccctatgatcaagatttc	436918	-	see also 21128 line
47736	DKFZp762 G199	NM_197956.1	876	ctccggcctatgatcaagattt	436917	-	see also 21128 line
47737	DKFZp762 I94	NM_152384.1	349	atgtaacagctactcgttttgaat	416039	-	see also 9843 line
47738	DKFZp762 I94	NM_152384.1	256	ttctgttggttacaattgcatat	416031	-	see also 9843 line
47739	DKFZp762 I94	NM_152384.1	98	ctgtccgctgagcaaatgaaac	416024	-	see also 9843 line
47740	DKFZp762 O076	NM_018710.1	401	gacacatctcggcgaataggatg	372760	-	see also 7572 line
47741	DKFZp762 O076	NM_018710.1	249	ggcgtgtgtccaatcactaatc	372751	-	see also 7572 line
47742	DKFZp762 O076	NM_018710.1	431	cccaactgtagacggataattaa	372761	-	see also 7572 line
47743	DLEU7 DLEU7	NM_198989.1	754	ttcaactctgtgctaatgagtg	440307	-	-
47744	DLEU7 DLEU7	NM_198989.1	317	ggcctccatcagccacacaaatgg	440306	-	see also 47743 line
47745	DLNB14 DLNB14	NM_198489.1	427	aggattatgctggtattcaagaaa	438536	-	see also 21131 line
47746	DLNB14 DLNB14	NM_198489.1	434	tgcggattcaagaatccatgg	438538	-	see also 21131 line

図4-6 (続き)

1275

47747	DMRTC1	NM_033053.1	571	tccatctcgtcgtcctattggaca	402739	-	-	-
47748	DMRTC1	NM_033053.1	257	ctcccatcgtcgtcagaatttg	402738	-	see also 47747 line	-
47749	DNAJG9	NM_015190.3	372	ggcgtattggcgtcactcttta	349534	-	see also 21132 line	-
47750	DNAJG9	NM_015190.3	585	cggagaggtccatctctataatg	349541	-	see also 21132 line	-
47751	DNAJG1	NM_013238.1	703	aggcgagaagctggtctctttt	338366	-	see also 21133 line	-
47752	DNAJG1	NM_013238.1	740	ctgctggcaagctgaagattaga	338367	-	see also 21133 line	-
47753	DNAP1P6	NM_015535.1	865	aactagatatcgtcgtatgatta	353739	-	see also 6480 line	-
47754	DNAP1P6	NM_015535.1	846	aacgtgcaccgtttcttaact	353736	-	see also 6480 line	-
47755	DOCK5	NM_024940.3	1218	ttgaacggacacatatacgaact	392337	-	see also 21135 line	-
47756	DOCK5	NM_024940.3	1720	aagccgcaagggtctatgtgc	392351	-	see also 21135 line	-
47757	DOLP1	NM_020438.2	80	accctcaocacgtcgtgaatcc	377464	-	see also 7876 line	-
47758	DOLP1	NM_020438.2	83	ctcaccacagtcgaatctctgc	377465	-	see also 7876 line	-
47759	DOM3Z	NM_005510.2	590	ccgggtccagggaacactatc	334040	-	see also 21137 line	-
47760	DOM3Z	NM_005510.2	668	tctctcggagcttatgtacatg	334041	-	see also 21137 line	-
47761	DP1L1	NM_138393.1	299	cccgcatatgcctcaatcaag	407940	-	see also 21138 line	-
47762	DP1L1	NM_138393.1	298	accgcgatgtgcctcaatcaaa	407939	-	see also 21138 line	-
47763	DPOR1	NM_080870.2	523	tagaacgaagctgagttctatca	406870	-	see also 21139 line	-
47764	DPOR1	NM_080870.2	568	ggccatcatcatcctcaataaag	406872	-	see also 21139 line	-
47765	DPH2L2	NM_001384.2	385	ggcgacaggttcaagatgttca	330192	-	see also 21140 line	-
47766	DPH2L2	NM_001384.2	1102	tggcaagcgtatgtatgtgttg	330199	-	see also 21140 line	-
47767	DPPA4	NM_018189.1	830	cccgccacttgaagacacatg	368236	-	see also 21141 line	-
47768	DPPA4	NM_018189.1	229	aagataccaatccctccattacc	368223	-	see also 21141 line	-
47769	DREV1	NM_016025.2	1029	ctgtgaaaggcagcatgtataa	355955	-	see also 6625 line	-
47770	DREV1	NM_016025.2	1037	aggcgacatgtataatgactact	355957	-	see also 6625 line	-
47771	DT1P1A10	NM_058163.1	438	atggaggtcacagtcactgaatga	406186	-	see also 21143 line	-
47772	DT1P1A10	NM_058163.1	505	atccagagctcagactattatag	406188	-	see also 21143 line	-
47773	DTNBP1	NM_032122.3	486	agctttaatcgcagacttagaat	397880	-	see also 21144 line	-
47774	DTNBP1	NM_032122.3	301	aagtactctgtggtatagaatt	397878	-	see also 21144 line	-
47775	DJFD1	NM_138419.2	977	ctggcggtagaccattctaaag	408042	-	see also 21145 line	-
47776	DJFD1	NM_138419.2	628	ttgggtgacgagcgcatagttt	408026	-	see also 21145 line	-
47777	DUSP15	NM_080611.3	376	tactctggaacttctattatgc	406407	-	see also 21147 line	-
47778	DUSP15	NM_080611.3	986	cgcggtcaagcagactttctot	406412	-	see also 21147 line	-
47779	DUSP15	NM_080611.3	413	agctggcgccgaaataagataca	406410	-	see also 21147 line	-
47780	DYX1C1	NM_130810.1	373	ctcttcaggtagcgattacagc	407009	-	see also 9554 line	-
47781	DYX1C1	NM_130810.1	404	ggcgagagactcgggtttctgt	407010	-	see also 9554 line	-
47782	DZ1P1	NM_014934.2	2258	ggcattctctgcacatactgg	346071	-	see also 21149 line	-
47783	DZ1P1	NM_014934.2	2988	cccgagaggtcgcgcgttaaac	346087	-	see also 21149 line	-
47784	E2IG2	NM_016565.1	328	agggtcagcgcttcaaggattgc	358148	-	see also 21150 line	-
47785	E2IG4	NM_015516.1	796	gtcggggaaccccaagcttaact	353654	-	see also 21151 line	-
47786	E2IG4	NM_015516.1	126	gcctgactcgggtggatgtagc	353652	-	see also 21151 line	-
47787	E2IG4	NM_015516.1	408	ccctgagcgagctgaaccttagc	353653	-	see also 21151 line	-
47788	E2IG5	NM_014367.2	613	gtggtatgaggatccatttcata	340418	-	see also 21152 line	-
47789	E2IG5	NM_014367.2	374	aagatcagctcatgaattgc	340416	-	see also 21152 line	-
47790	EAF1	NM_033083.5	514	tccacactattcttatgatttt	403199	-	see also 21153 line	-

図46 (続き)

1276

47791	EAF1	NM_033083.5	1102	accagcagccctacacagtagg	403208	-	see also 21153 line
47792	EAF1	NM_033083.5	661	aacggccttaccagaagactgt	403203	-	see also 21153 line
47793	EAF2	NM_018456.3	103	cgcagcaggttctcaagttagg	371791	-	see also 21154 line
47794	EAF2	NM_018456.3	469	gcagagactcccaactcttgtaa	371801	-	see also 21154 line
47795	EB-1	NM_152788.2	513	cggacggccttagatgtaaaaa	421301	-	see also 21155 line
47796	EB-1	NM_152788.2	3097	accttgaccccggaagaagc	375652	-	see also 21155 line
47797	EB-1	NM_152788.2	3123	agcctctaccocggtacagtagt	375653	-	see also 21155 line
47798	EB-1	NM_020140.1	648	caactctggaacctgtgtaaaa	375647	-	see also 21155 line
47799	ECRG4	NM_032411.1	531	cagcgtgaactacagtagtagt	400206	-	see also 21157 line
47800	ECRG4	NM_032411.1	378	ggcgttgagcgaagcgaatttg	400197	-	see also 21157 line
47801	EDRF1	NM_015608.2	2081	cagcactccaatcccgtaaaat	354533	-	see also 21158 line
47802	EDRF1	NM_015608.2	1553	gcccgttagccattctctgtaca	354519	-	see also 21158 line
47803	EDRF1	NM_015608.2	613	ttggcatggccatagactttatt	354495	-	see also 21158 line
47804	EEG1	NM_017611.2	580	ggcacgctcatagcccaatttt	359517	-	see also 21159 line
47805	EEG1	NM_017611.2	1292	ctgctcatggagccggttaaaaa	359522	-	see also 21159 line
47806	EFA6R	NM_015310.1	585	atggccacgtgaatattggaag	351410	-	see also 6322 line
47807	EFA6R	NM_015310.1	797	aagaccatcagtcgtattggaag	351415	-	see also 6322 line
47808	EG1	NM_025205.1	19	ctccactagggggtatgtttct	394412	-	see also 21161 line
47809	EG1	NM_025205.1	213	accgatcagggaagaattggaac	394417	-	see also 21161 line
47810	EGFL1	NM_198283.1	463	aacatgtagcagcgaattgtgg	437589	-	see also 21162 line
47811	EGFL1	NM_198283.1	2040	aggaatcaggtatctatgtttt	437644	-	see also 21162 line
47812	EIF2C3	NM_024852.2	2481	cacacccatagctgcgtatttt	391493	-	see also 8784 line
47813	EIF2C3	NM_024852.2	1798	tggccctacagcttattatgtca	391461	-	see also 8784 line
47814	EIF2C4	NM_017629.2	2256	ttcgaaaggcgtatattagcttg	359769	-	see also 7058 line
47815	ELAC1	NM_018696.1	573	aagcattcgctctttccacaga	372654	-	see also 7565 line
47816	ELAC1	NM_018696.1	379	cacggagctgtcttccattatg	372650	-	see also 7565 line
47817	ELAC2	NM_018127.4	1534	atcccgatgaagattcgaaatgt	367000	-	see also 21166 line
47818	ELAC2	NM_018127.4	1536	cccgatgaagattcgaaatgtca	367001	-	see also 21166 line
47819	ELAC2	NM_018127.4	1195	aaccttcgagcccaagattca	366994	-	see also 21166 line
47820	ELKS	NM_015064.2	831	cccttcgtagcagcagagataac	347534	-	see also 6218 line
47821	ELKS	NM_015064.2	841	ggcgagagataacacacatag	347536	-	see also 6218 line
47822	ELKS	NM_015064.2	608	acctctggccctatgtatctaag	347530	-	see also 6218 line
47823	Elis1	NM_152793.1	200	agctagcacaggatacatctoc	421372	-	see also 21168 line
47824	Elis1	NM_152793.1	265	ttcaagcttttcagacotttact	421373	-	see also 21168 line
47825	ELP4	NM_019040.2	1068	ctcgcttaataacttgatctgt	374617	-	see also 7673 line
47826	ELSPBP1	NM_022142.3	773	gtgtgtgcaacttcttaacaact	382477	-	see also 21170 line
47827	ELSPBP1	NM_022142.3	698	ttgtcactttccgtcaactata	382473	-	see also 21170 line
47828	EMCN	NM_016242.2	662	ggcagcttattccagttattatt	356595	-	see also 21171 line
47829	EMCN	NM_016242.2	824	agcttctaccgttaagacaatt	356603	-	see also 21171 line
47830	EMILN3	NM_024756.1	1332	gacgagactttcgatcagattag	390098	-	see also 21172 line
47831	EMILN3	NM_024756.1	2833	agcagatattgttgagtttaoc	390106	-	see also 21172 line
47832	EML5	NM_183387.1	3948	tacocctagcggcgaagatattg	435972	-	see also 10298 line
47833	EML5	NM_183387.1	1223	atcgttcgctcaggtatgagc	435972	-	see also 10298 line
47834	EMU1	NM_133455.1	1135	cgcgagcgttgagatttagc	407217	-	see also 9579 line

図46 (続き)

1278

47879	FAM	NM_018147.1	133	acggagtcacacagatgaattt	367675	-	see also 21197 line	
47880	FAM11A	NM_032508.1	1243	cagttccggagcccccataatc	400470	-	see also 21198 line	
47881	FAM11A	NM_032508.1	894	ttgttcttgctctatgatgt	400459	-	see also 21198 line	
47882	FAM13A1	NM_014883.1	287	ttctatttgatgctcatgtacc	345250	-	see also 6077 line	
47883	FAM13A1	NM_014883.1	1244	gcccagctcacacagaaggattca	345274	-	see also 6077 line	
47884	FAM13C1	NM_198215.1	658	tgttgcgagtgaggacagattct	437259	-	see also 10314 line	
47885	FAM13C1	NM_198215.1	981	aagcggaaaaattcggaatttga	437262	-	see also 10314 line	
47886	FAM18B	NM_016078.1	755	gtgttggcgggtggttatcatgg	356216	-	see also 21201 line	
47887	FAM20A	NM_017565.1	321	ggcagagatgacacaaactttc	359091	-	see also 21202 line	
47888	FAM20A	NM_017565.1	320	cggcagcatcgtgcacaaacttt	359090	-	see also 21202 line	
47889	FAM20B	NM_014864.1	350	agcggatgctgtgttagcaatt	344939	-	see also 21203 line	
47890	FAM20B	NM_014864.1	450	gaggcccttcacccaatgatga	344940	-	see also 21203 line	
47891	FAM20C	NM_020223.1	1178	acggcagatgttctactactg	376251	-	see also 21204 line	
47892	FAM20C	NM_020223.1	922	tacgggaagcgtgttcaaac	376250	-	see also 21204 line	
47893	FAM8A1	NM_016255.1	238	cgccgagcagccgaattggagc	356630	-	see also 21205 line	
47894	FAM8A1	NM_016255.1	1102	tgcacaaagtccgggttttagtga	356848	-	see also 21205 line	
47895	FAM8A1	NM_016255.1	1105	accagtcggttttagtgatc	356650	-	see also 21205 line	
47896	FANCL	NM_018062.1	707	cacgcagaattgcataggtaat	366003	-	see also 21206 line	
47897	FANCL	NM_018062.1	90	ccggctcaaaaaccgtgtatgagg	365978	-	see also 21206 line	
47898	FANCL	NM_018062.1	80	tgcocagaaacggctgaaaaac	365977	-	see also 21206 line	
47899	FANK1	NM_145235.2	857	ctctgcggttgggaaatcaga	413793	-	see also 21207 line	
47900	FANK1	NM_145235.2	1076	gagtgtagtctcttattagaag	413804	-	see also 21207 line	
47901	FAPP2	NM_032639.2	153	ttctctgagggaatgtgccc	401160	-	see also 21208 line	
47902	FATE	NM_033085.1	272	cagocaaacgagtttggatag	403211	-	see also 21209 line	
47903	FATE	NM_033085.1	397	ttccaaaggatcatgttccatta	403214	-	see also 21209 line	
47904	FAU	NM_001997.2	310	ggccgcagcttggaggtaaagt	330570	-	molecular_function unknown	-
47905	FAU	NM_001997.2	340	tccttgcccgctgtggaagaagt	330571	-	see also 47904 line	
47906	FBS1	NM_022452.1	1081	aaggccaccccgcttctatgagg	382835	-	see also 21210 line	
47907	FBS1	NM_022452.1	843	ggcctcgcccaaccacaagaatct	382834	-	see also 21210 line	
47908	FBX30	NM_033182.4	730	gaggagagctccacacattct	403564	-	see also 21211 line	
47909	FBXL12	NM_017703.1	393	ctctacacgatcgagactaaagt	361080	-	see also 21212 line	
47910	FBXL12	NM_017703.1	269	ctcggctctctcgagatcttct	361078	-	see also 21212 line	
47911	FBXL12	NM_017703.1	398	cacgatcgacactaaagtcagt	361081	-	see also 21212 line	
47912	FBXL8	NM_018378.2	1109	tgcgcgaggtgcatgtttctgc	370928	-	see also 21213 line	
47913	FBXL8	NM_018378.2	1106	ccctgcgcgaggtgcatgttttc	370927	-	see also 21213 line	
47914	FBXL8	NM_018378.2	334	cacaacctacggctggaattga	370925	-	see also 21213 line	
47915	FBXL9	NM_012163.1	827	caggtgcctcgccatcaaatgg	337713	-	-	-
47916	FBXO15	NM_152676.1	1327	ttcatgatgagcgtactctttt	419619	-	see also 21214 line	
47917	FBXO15	NM_152676.1	1033	cacattaggctcggtactatcc	419603	-	see also 21214 line	
47918	FBXO15	NM_152676.1	804	cagttttaccgcactggtataaa	419599	-	see also 21214 line	
47919	FBXO16	NM_172366.2	630	atgcgtgacgttcaactagtac	424463	-	see also 21215 line	
47920	FBXO16	NM_172366.2	631	tcgctgacgttcaactagtaca	424464	-	see also 21215 line	
47921	FBXO22	NM_012170.2	694	aagaaattacattagaagaca	337730	-	see also 5175 line	

図46 (続き)

1279

47922	FBXO22	NM_012170.2	451	gagtgctgggccaataagagagc	337722	-	see also 5175 line
47923	FBXO25	NM_012173.3	704	accacaatcctcgttaactcaaa	337739	-	see also 21217 line
47924	FBXO25	NM_012173.3	706	cacaatcctcgttaactcaaga	337740	-	see also 21217 line
47925	FBXO26	NM_024907.5	896	ggcatcgcctacgtatcttttga	391894	-	-
47926	FBXO26	NM_024907.5	895	gggatcgcctacgtatcttttg	391893	-	see also 47925 line
47927	FBXO26	NM_024907.5	614	tgccttgacactcttcgaatg	391891	-	see also 47925 line
47928	FBXO27	NM_178820.3	535	gacgtctcgtcgaactcaatca	431377	-	see also 21218 line
47929	FBXO27	NM_178820.3	666	gacacgacagcggctgtgtac	431379	-	see also 21218 line
47930	FBXO27	NM_178820.3	710	gacgccaacacgactgtttctaga	431381	-	see also 21218 line
47931	FBXO32	NM_058229.2	1019	agcggcagatccgcaaacgatta	406257	-	see also 21219 line
47932	FBXO32	NM_058229.2	1024	cagatccgcaaacgattaattct	406261	-	see also 21219 line
47933	FBXO34	NM_017943.2	848	ctgctagctagctgtttcaaaaa	364490	-	see also 21220 line
47934	FBXO34	NM_017943.2	1650	gtcagcactgtcagactattcc	364508	-	see also 21220 line
47935	FBXO34	NM_017943.2	2264	agctttaatcgggcaatocataa	364514	-	see also 21220 line
47936	FBXO6	NM_018438.2	669	ctgcactacaaactcaaaagtc	371549	-	see also 7478 line
47937	FBXO6	NM_018438.2	992	accgagctgtgtccagatttc	371551	-	see also 7478 line
47938	FBXW5	NM_018998.2	1462	accgaatcgggagagattgacc	374102	-	see also 7651 line
47939	FBXW5	NM_018998.2	768	tgcacgcacatcggagatatcacc	374098	-	see also 7651 line
47940	FBXW7	NM_018315.2	1461	cacgttcagggcactactaata	370196	-	see also 7394 line
47941	FBXW7	NM_018315.2	515	aacaaacgcgcgcgaattacatct	370168	-	see also 7394 line
47942	FBXW8	NM_012174.1	1063	ctcggccaacaaagtgtctttg	337766	-	see also 21224 line
47943	FBXW8	NM_012174.1	241	gccttaacgaattggcaatcaata	337753	-	see also 21224 line
47944	FBXW8	NM_012174.1	551	gtcatcgcggatatacatcagg	337758	-	see also 21224 line
47945	FCGBP	NM_003890.1	15547	gcccgaacttcggcgtaactcc	332266	-	see also 21225 line
47946	FCGBP	NM_003890.1	418	aggccctaggcacccagattttt	332241	-	see also 21225 line
47947	FCGBP	NM_003890.1	419	ggccctaggcacccagattttg	332242	-	see also 21225 line
47948	FEM1A	NM_018708.1	1297	cgcgcactcggcgcaatttcgagc	372742	-	see also 21226 line
47949	FEM1A	NM_018708.1	938	ctgaacgggggaatttcaagaag	372731	-	see also 21226 line
47950	FEM1Q	NM_020177.2	772	tgggggctcgcgaattttgatg	375757	-	see also 7781 line
47951	FEM1C	NM_020177.2	1005	atgggcatacgtcgttgattgatt	375766	-	see also 7781 line
47952	FEZL	NM_018008.2	618	ggccaagcgtcgcgtctactact	365225	-	see also 7195 line
47953	FEZL	NM_018008.2	367	tacgaggtgcgcgaagaact	365223	-	see also 7195 line
47954	FEZL	NM_018008.2	1202	aggccttcgtctcgaattttgc	365239	-	see also 7195 line
47955	FGIF	NM_017704.1	305	gtgtatcgttgcaagaaaaaa	361089	-	see also 21228 line
47956	FGIF	NM_017704.1	680	cagcaagatcacctagaactcc	361095	-	see also 21228 line
47957	FLIP1	NM_015687.1	3276	tactgtcgaacagtaaacgtga	355081	-	see also 21229 line
47958	FLIP1	NM_015687.1	3475	cccaaccgatttcctagtcaaa	355082	-	see also 21229 line
47959	FIS	NM_175616.2	536	tgtctcctcatcgcgaattcc	429154	-	see also 21230 line
47960	FIS	NM_175616.2	604	cccaaggaggtcgttgatgagc	429156	-	see also 21230 line
47961	FKRP	NM_024301.2	1659	ggcgaagcgccctaacactacc	386215	-	see also 21231 line
47962	FKRP	NM_024301.2	1473	ggcggtcgaaggcgacttttcc	386213	-	see also 21231 line
47963	FKSG14	NM_022145.2	275	aggatctagatccgtagtagtact	382502	-	see also 21232 line
47964	FKSG14	NM_022145.2	278	atcttagatccgtagtagtactaca	382503	-	see also 21232 line
47965	FKSG32	NM_031307.2	378	aaccaagactcgcactagtagaaa	396663	-	see also 9012 line

図46 (続き)

1280

47966	FKSG32	NM_031307.2	1325	cctcatggagccgctctaaatgc	396699	-	see also 9012 line
47967	FKSG42	NM_032032.1	1905	aggaaggcaaggcaacottttg	397667	-	see also 21234 line
47968	FKSG42	NM_032032.1	373	gagatgttctctgtgacatgc	397664	-	see also 21234 line
47969	FLJ0005	NM_020447.2	141	tcggggcagatcggaataagagc	377479	-	see also 21235 line
47970	FLJ0005	NM_020447.2	273	aaggccgtttctgcggagaaagg	377480	-	see also 21235 line
47971	FLJ0007	NM_033449.1	708	tgccacacctaccattactacc	404031	-	see also 9425 line
47972	FLJ00332	NM_198517.1	191	tcggcaacaggagatgaatgg	438949	-	-
47973	FLJ00332	NM_198517.1	116	gcccagccgaccgctatggattc	438947	-	see also 47972 line
47974	FLJ00332	NM_198517.1	121	gcccagccgctatgattcattgg	438948	-	see also 47972 line
47975	FLJ10006	NM_017969.1	1897	accggatgtggcaactttatt	364923	-	see also 21237 line
47976	FLJ10006	NM_017969.1	2233	gacggagcagtgatgatctctat	364928	-	see also 21237 line
47977	FLJ10036	NM_017975.2	1248	ttccgtcaagcgtctttcaaaag	364987	-	see also 7188 line
47978	FLJ10036	NM_017975.2	912	aactgcgacgtctttggatatt	364980	-	see also 7188 line
47979	FLJ10036	NM_017975.2	1245	tcgttcogtcaagcgtctttca	364986	-	see also 7188 line
47980	FLJ10055	NM_017983.3	143	aactaaagccgggtataagctgt	365035	-	see also 21239 line
47981	FLJ10055	NM_017983.3	1227	tcacgggtccaggtattctga	365057	-	see also 21239 line
47982	FLJ10081	NM_017991.3	462	cacgcagcgtgatgaatgagtg	365109	-	see also 21240 line
47983	FLJ10081	NM_017991.3	1341	tagatgatccctcttggtatg	365125	-	see also 21240 line
47984	FLJ10099	NM_017994.3	477	cacaactccggaagaatacaatga	365142	-	see also 21241 line
47985	FLJ10099	NM_017994.3	479	accacaactccggaagaatacaat	365141	-	see also 21241 line
47986	FLJ10099	NM_017994.3	406	ttctgctacgttcaatgattg	365139	-	see also 21241 line
47987	FLJ10103	NM_017996.2	391	cacctgatgcgctactattt	365161	-	see also 21242 line
47988	FLJ10103	NM_017996.2	1461	cgcgggtcaaaagcacactattt	365187	-	see also 21242 line
47989	FLJ10103	NM_017996.2	477	gacctactgcgggtacacgaagg	365164	-	see also 21242 line
47990	FLJ10116	NM_018000.1	688	aagctcgagagatgtgttaaaa	365214	-	see also 21243 line
47991	FLJ10116	NM_018000.1	349	agccctcgtcagtgatacaaat	365203	-	see also 21243 line
47992	FLJ10154	NM_018011.1	573	ttcgagcggcagcgaaaattcg	365282	-	see also 7198 line
47993	FLJ10154	NM_018011.1	576	ggcgccagcggcaaaaattcgaca	365283	-	see also 7198 line
47994	FLJ10154	NM_018011.1	792	gagcttcgcgcacaaaaagctag	365285	-	see also 7198 line
47995	FLJ10156	NM_019013.1	52	ggcttctcggtgcgacagacatgg	374468	-	see also 21245 line
47996	FLJ10159	NM_018013.1	586	aagtoagcccggaaccttaataa	365287	-	see also 21246 line
47997	FLJ10159	NM_018013.1	777	gtgctccgaattagaaatcaga	365292	-	see also 21246 line
47998	FLJ10178	NM_018015.2	1109	aaccgtcgagcaaatataatgc	365372	-	see also 7211 line
47999	FLJ10178	NM_018015.2	1106	ttcaacgtcgagcaaatataaa	365371	-	see also 7211 line
48000	FLJ10188	NM_018017.2	2807	agcatgggaagtgttctagtgc	365437	-	see also 21248 line
48001	FLJ10188	NM_018017.2	1182	aacatcgagtcacaaatggatg	365400	-	see also 21248 line
48002	FLJ10193	NM_018019.2	82	ggcgacccgcggagatgatttg	365452	-	see also 21249 line
48003	FLJ10199	NM_018022.1	787	ggctgcctcaaggtactatgttc	365456	-	see also 21250 line
48004	FLJ10199	NM_018022.1	1120	tcacccgagtatgatgaagtc	365465	-	see also 21250 line
48005	FLJ10199	NM_018022.1	1117	tcctccacccgagtatgatgaag	365464	-	see also 21250 line
48006	FLJ10204	NM_018024.1	698	cacacatccgaattacacatc	365478	-	see also 21251 line
48007	FLJ10204	NM_018024.1	696	tacaacatccgaattacacaa	365477	-	see also 21251 line
48008	FLJ10213	NM_018029.3	909	tccttatgctagcagattcaaa	365493	-	see also 21252 line
48009	FLJ10213	NM_018029.3	908	ctccttatgctagcagattcaaa	365492	-	see also 21252 line

図 46 (続き)

1281

48010	FLJ10213	NM_018029.3	1217	tacacaaagctacgcaagtcgaagt	365498	-	see also 21252 line
48011	FLJ10233	NM_018034.2	1061	ccactacgtgcacatagtag	365542	-	see also 21254 line
48012	FLJ10233	NM_018034.2	1841	gacaagaccgagacagtaatcc	365579	-	see also 21254 line
48013	FLJ10241	NM_018035.1	286	caggagagcgagtcgaagttcc	365586	-	see also 21255 line
48014	FLJ10241	NM_018035.1	202	aagggtgcatgagaaaaatcgatc	365582	-	see also 21255 line
48015	FLJ10246	NM_018038.1	107	ttcacttttagcggcgagtaacc	365674	-	see also 21256 line
48016	FLJ10246	NM_018038.1	294	tggtaacttgagattgtataca	365679	-	see also 21256 line
48017	FLJ10251	NM_018039.2	1208	tgggaagaaccccatctataatc	365692	-	see also 21257 line
48018	FLJ10251	NM_018039.2	1207	ctggaagaaccccatctataat	365691	-	see also 21257 line
48019	FLJ10260	NM_018042.2	2040	taccagataatcggtatagattg	365727	-	see also 21258 line
48020	FLJ10260	NM_018042.2	875	gcccctgttgatatacaagaag	365711	-	see also 21258 line
48021	FLJ10287	NM_019083.1	25	tgcgcgacgagcctggtttcc	375030	-	see also 21259 line
48022	FLJ10287	NM_019083.1	502	cagcaggctctattttaggtaa	375047	-	see also 21259 line
48023	FLJ10298	NM_018050.2	1493	tccgcaggaaacgttactcaaga	365876	-	see also 21260 line
48024	FLJ10298	NM_018050.2	409	ggcaatgagcccggtatattctc	365850	-	see also 21260 line
48025	FLJ10300	NM_018051.2	2402	cagttttccaccgcgtaatcc	365890	-	see also 21261 line
48026	FLJ10300	NM_018051.2	2661	agggctcaagctggtacatagtc	365897	-	see also 21261 line
48027	FLJ10300	NM_018051.2	2619	atgcaggttcaataagtgattt	365895	-	see also 21261 line
48028	FLJ10305	NM_018052.3	1601	tgcagaactgtatcggtatgaatcg	365927	-	see also 7217 line
48029	FLJ10305	NM_018053.2	1188	aacagggcgcacccacatttagc	365933	-	see also 21263 line
48030	FLJ10315	NM_018056.1	1517	tgtccgggacccgttggtattg	365942	-	see also 21264 line
48031	FLJ10315	NM_018056.1	1229	agcaaccgttgacgaagaatgc	365937	-	see also 21264 line
48032	FLJ10330	NM_018061.1	1019	caggcaaatccccaagattga	365963	-	see also 7226 line
48033	FLJ10330	NM_018061.1	1018	acggcgaagatcccgaaatattg	365962	-	see also 7226 line
48034	FLJ10350	NM_018067.2	902	agggctctccgggtgcagaaaaag	366044	-	see also 21265 line
48035	FLJ10350	NM_018067.2	1749	ggcgttggagcgggaaagcaact	366046	-	see also 21265 line
48036	FLJ10350	NM_018067.2	1808	agcgtctggagagagatcatgaag	366047	-	see also 21265 line
48037	FLJ10359	NM_018072.3	427	tgcgcctagatgatactactag	366125	-	see also 21266 line
48038	FLJ10359	NM_018072.3	2648	ctcctcgctcaaggttgatttg	366178	-	see also 21266 line
48039	FLJ10359	NM_018072.3	1080	accgtctcggctatatacgtgc	366150	-	see also 21266 line
48040	FLJ10374	NM_018074.3	210	gacgtgcggagaaataactaca	366188	-	see also 21267 line
48041	FLJ10374	NM_018074.3	79	atgtcggagcgaaagattataa	366182	-	see also 21267 line
48042	FLJ10375	NM_018075.2	1347	gccacggcatatccagatgaac	366217	-	see also 7232 line
48043	FLJ10375	NM_018075.2	646	aagtatcagcccatagagaatca	366200	-	see also 7232 line
48044	FLJ10378	NM_018078.2	625	atcctcattgaactttgattat	366318	-	see also 7235 line
48045	FLJ10385	NM_018081.1	252	cccacgcttccccgatgaataa	366367	-	see also 21269 line
48046	FLJ10385	NM_018081.1	708	ctgacggtctcgtcatctgacc	366372	-	see also 21269 line
48047	FLJ10404	NM_019057.2	4029	ctcctccttggcagatgttcc	374799	-	see also 21270 line
48048	FLJ10404	NM_019057.2	3847	tgggtcgcagatcccaaaactga	374798	-	see also 21270 line
48049	FLJ10404	NM_019057.2	3166	ctgcaggagatcaaaaactgt	374797	-	see also 21270 line
48050	FLJ10407	NM_018087.3	2045	gtcgaagacttaacttaagcttc	366553	-	see also 7249 line
48051	FLJ10407	NM_018087.3	759	gagcaattatggctatagctat	366514	-	see also 7249 line
48052	FLJ10415	NM_018089.1	171	cgcggtatgctcgggtcttccagg	366558	-	see also 21272 line
48053	FLJ10415	NM_018089.1	1007	cccgcctcggcggcttcttcttc	366574	-	see also 21272 line

図 46 (続き)

1282

48054	FLJ10420	NM_018090.3	323	ggcgaacggcggtttattagaatt	366579	-	see also 21273 line
48055	FLJ10420	NM_018090.3	324	ggcgaacggcggtttattagaattg	366580	-	see also 21273 line
48056	FLJ10439	NM_018090.3	378	cagcaccgagggatggcatattcc	366630	-	see also 7253 line
48057	FLJ10439	NM_018090.3	778	taccaccaggtccggtttatga	366633	-	see also 7253 line
48058	FLJ10460	NM_018097.1	580	ctcaagtggcgttaaacacacaaa	366654	-	see also 21274 line
48059	FLJ10460	NM_018097.1	438	gactttattgagagattagaaa	366652	-	see also 21274 line
48060	FLJ10460	NM_018097.1	121	aacatgcttaagaaaacagtttc	366644	-	see also 21274 line
48061	FLJ10462	NM_018099.3	1088	ggcgaattccagtgatatacagt	366674	-	see also 21275 line
48062	FLJ10462	NM_018099.3	814	gtggttagaagagatctattatg	366689	-	see also 21275 line
48063	FLJ10493	NM_018112.1	578	gtggtacattataacgaatttt	366831	-	see also 21277 line
48064	FLJ10493	NM_018112.1	575	cagggttggtacattataacgaat	366829	-	see also 21277 line
48065	FLJ10498	NM_018115.1	1875	ggcactacagagatgcacttttga	366852	-	see also 21278 line
48066	FLJ10498	NM_018115.1	1492	agcaactagccgagttttaactca	366848	-	see also 21278 line
48067	FLJ10498	NM_018115.1	1494	cactagcagagttttaactcagg	366849	-	see also 21278 line
48068	FLJ10520	NM_018124.2	1075	accgtgttcagagacttaataatgc	366954	-	see also 21279 line
48069	FLJ10520	NM_018124.2	1074	taccgtgttcagagacttaataatg	366953	-	see also 21279 line
48070	FLJ10521	NM_018125.2	866	agcaaaagtaagattgaagatg	366975	-	see also 7268 line
48071	FLJ10521	NM_018125.2	503	gtcgatgtgactagatgtgtaca	366972	-	see also 7268 line
48072	FLJ10521	NM_018125.2	1368	ggcgaattgacccggttcactttc	366976	-	see also 7268 line
48073	FLJ10534	NM_018128.4	1594	aagcgtttccgagatgacaaact	367020	-	see also 21281 line
48074	FLJ10534	NM_018128.4	2437	gtggctctcgaatcggatttca	367029	-	see also 21281 line
48075	FLJ10539	NM_018130.1	534	tcgcagtgccactatggatttg	367061	-	see also 21282 line
48076	FLJ10539	NM_018130.1	1782	tgctgttaaacccgagcaaatattc	367097	-	see also 21282 line
48077	FLJ10546	NM_018133.2	772	ggcgcgtctagtcctcaactacg	367159	-	see also 21283 line
48078	FLJ10546	NM_018133.2	2169	aacgtgccttctactcttaac	367193	-	see also 21283 line
48079	FLJ10547	NM_018134.1	860	accgtcgtctataccatcaaca	367212	-	see also 21284 line
48080	FLJ10547	NM_018134.1	1040	tgcaactatgaggactcaaat	367214	-	see also 21284 line
48081	FLJ10547	NM_018134.1	856	gaccaccgtcgtctataccatca	367211	-	see also 21284 line
48082	FLJ10565	NM_018140.1	1648	gacactgcagccacggttaaat	367601	-	see also 21285 line
48083	FLJ10565	NM_018140.1	1653	tgcaagccacttaaatgtgcaga	367603	-	see also 21285 line
48084	FLJ10569	NM_018142.1	614	ttcgattacctccaatattatg	367612	-	see also 7273 line
48085	FLJ10569	NM_018142.1	1563	tgccactagggaggtacagaatga	367649	-	see also 7273 line
48086	FLJ10579	NM_018145.1	339	gactatacgcagactctcagatcc	367659	-	see also 21287 line
48087	FLJ10579	NM_018145.1	720	ggcaatgcggagctgcacatga	367660	-	see also 21287 line
48088	FLJ10597	NM_016501.2	396	ctcaggtttcagtggttatatt	357897	-	see also 21288 line
48089	FLJ10597	NM_016501.2	455	atgactctctcttagtttagtc	357898	-	see also 21288 line
48090	FLJ10637	NM_018164.1	1114	cagtcggaagaggtcgtttaaag	367843	-	see also 7291 line
48091	FLJ10652	NM_018169.1	396	agcggcgtgcagacctcaaaaga	367905	-	see also 21289 line
48092	FLJ10652	NM_018169.1	194	cacgaagagaggttcataaat	367998	-	see also 21289 line
48093	FLJ10661	NM_152563.1	261	agcgggctctcctcaattctcatg	367980	-	see also 21290 line
48094	FLJ10665	NM_018173.1	1910	ctctggtcacggcactttgatcc	367988	-	see also 21291 line
48095	FLJ10665	NM_018173.1	2087	ccccgaactccggaaggaatcc	367989	-	see also 21291 line
48096	FLJ10665	NM_018173.1	198	gcctcccgatgaggtatgg	367983	-	see also 21291 line
48097	FLJ10697	NM_018181.3	1073	agcgttatcgtcaagaattgtcg	368067	-	see also 21292 line

図46 (続き)

1283

48098	FLJ10697	NM_018181.3	4170	gacgtacatttaccacacgttg	368127	-	see also 21292 line
48099	FLJ10700	NM_018182.1	909	gacgtgtctacctcaactatcc	368141	-	see also 7307 line
48100	FLJ10700	NM_018182.1	311	ccgaattggatcgctgtactaag	368138	-	see also 7307 line
48101	FLJ10724	NM_018194.1	209	tgggaactggcactttactact	368302	-	see also 21294 line
48102	FLJ10724	NM_018194.1	1565	tgggaatagatcttctacacagg	368320	-	see also 21294 line
48103	FLJ10737	NM_018198.1	964	gacgatacagactcgtgtgaagg	368352	-	see also 21295 line
48104	FLJ10737	NM_018198.1	173	cacaggcggaaacgactgtttaac	368334	-	see also 21295 line
48105	FLJ10743	NM_018201.2	546	acaggagtggtgtacacaaatag	368382	-	see also 21296 line
48106	FLJ10743	NM_018201.2	345	gocgggtggaacacgactactcaag	368376	-	see also 21296 line
48107	FLJ10743	NM_018201.2	820	ggccgagatccggggacacttta	368385	-	see also 21296 line
48108	FLJ10747	NM_018202.2	612	ttgcttcaaaaagttaacgaagc	368395	-	see also 21297 line
48109	FLJ10747	NM_018202.2	1499	cagggaagcccggaagtttttaga	368409	-	see also 21297 line
48110	FLJ10748	NM_018203.1	1080	ttctccggaggtccaaagattac	368420	-	see also 21298 line
48111	FLJ10748	NM_018203.1	928	ttctgtcacggccaaagattacc	368419	-	see also 21298 line
48112	FLJ10781	NM_018215.2	1549	ctcggcgtgccacacaaatgaatcc	368532	-	see also 21299 line
48113	FLJ10781	NM_018215.2	420	taccggtgtctcaacaaagatttt	368517	-	see also 21299 line
48114	FLJ10781	NM_018215.2	416	cocgtacccggtgtctcaacaaag	368516	-	see also 21299 line
48115	FLJ10786	NM_018219.1	1381	ggcgtacccgggtgtctgataagaa	368543	-	see also 21300 line
48116	FLJ10786	NM_018219.1	749	ggcgtaccccgaggtttctaat	368538	-	see also 21300 line
48117	FLJ10803	NM_018224.1	531	caacttgacgggtcttttaga	368582	-	see also 21300 line
48118	FLJ10803	NM_018224.1	304	ttatccacagggtcttatattac	368579	-	see also 48117 line
48119	FLJ10803	NM_018224.1	406	agctcatcgacagggaacacttc	368581	-	see also 48117 line
48120	FLJ10817	NM_018076.2	1759	ggcggagactatcggaagtgtgc	366256	-	see also 21301 line
48121	FLJ10817	NM_018076.2	1691	accttgggggtcttaccattatg	366252	-	see also 21301 line
48122	FLJ10817	NM_018076.2	2988	ggctcacactagtcggttatctga	366291	-	see also 21301 line
48123	FLJ10846	NM_018241.1	557	acctttagtagcgggtctatctacc	368896	-	see also 21302 line
48124	FLJ10846	NM_018241.1	907	atctaactaacccggtatcaaat	368914	-	see also 21302 line
48125	FLJ10853	NM_018246.1	340	ggcgtgggtctaaactgaagaaa	368977	-	see also 7342 line
48126	FLJ10871	NM_018250.1	288	gggtgtcgtgggtgtgtattgt	369102	-	see also 21303 line
48127	FLJ10871	NM_018250.1	1003	tcctggagtccttatcatcagtac	369116	-	see also 21303 line
48128	FLJ10874	NM_018252.1	921	ggacaagtgtggttaactacattg	369143	-	see also 21304 line
48129	FLJ10874	NM_018252.1	516	cagctgaagcaccattacgagg	369138	-	see also 21304 line
48130	FLJ10884	NM_019079.2	754	atcacgaagttacgaagtcattg	374997	-	see also 21305 line
48131	FLJ10884	NM_019079.2	704	aacactaacgaatacaaatagtaa	374995	-	see also 21305 line
48132	FLJ10890	NM_018259.2	3227	tggaaagacccggtctatagtc	369348	-	see also 21306 line
48133	FLJ10890	NM_018259.2	1799	tcocgtatataaactatatactat	369318	-	see also 21306 line
48134	FLJ10901	NM_018265.1	505	aggatcggagccgggttacaact	369515	-	see also 21307 line
48135	FLJ10901	NM_018265.1	10	atgccgaagttaaatgaataacc	369513	-	see also 21307 line
48136	FLJ10902	NM_018266.1	881	cctcgtcaatctcttcgaagc	369531	-	see also 7356 line
48137	FLJ10902	NM_018266.1	1607	atcgaccattagcgtgttaaat	369554	-	see also 7356 line
48138	FLJ10902	NM_018266.1	746	tgttgcgaggaggctgtatagg	369523	-	see also 7356 line
48139	FLJ10904	NM_018268.1	1033	aggcctatgaacgacactcttgg	369585	-	see also 21309 line
48140	FLJ10904	NM_018268.1	311	ggcgcgagaatctcctttacaga	369562	-	see also 21309 line
48141	FLJ10922	NM_018273.2	1040	atcgacgtacgtccacaactcg	369631	-	see also 7360 line

図46 (続き)

1284

48142	FLJ10922	NM_018273.2	413	ccctgagtcagccatcactaacg	369623	-	see also 7360 line
48143	FLJ10936	NM_018279.2	825	gaggagctagctgttgattatc	369667	-	see also 21311 line
48144	FLJ10936	NM_018279.2	831	tagctgttgattatcctaacc	369669	-	see also 21311 line
48145	FLJ10970	NM_018286.1	594	aacagctctgctgcaaatcaga	369699	-	see also 21312 line
48146	FLJ10979	NM_018289.2	1255	atctctacgtgtatcgaatcc	369797	-	see also 21313 line
48147	FLJ10979	NM_018289.2	967	tgcgtacagagcgcgaagaaatt	369790	-	see also 21313 line
48148	FLJ10996	NM_019044.2	1610	gcggtgcgcagcctaatacagtat	374654	-	see also 21314 line
48149	FLJ10996	NM_019044.2	1614	tgcgcagctaatacagtatcaga	374656	-	see also 21314 line
48150	FLJ10996	NM_019044.2	1605	ccctagcagctcccgagctaatac	374652	-	see also 21314 line
48151	FLJ10997	NM_018293.1	650	accgtacatccaaacgatttaac	369819	-	see also 21315 line
48152	FLJ10997	NM_018293.1	651	ccgtacatccaaacgatttaaat	369820	-	see also 21315 line
48153	FLJ10998	NM_018294.3	1197	gccactctgagcaggttcittaa	369853	-	see also 21316 line
48154	FLJ10998	NM_018294.3	634	atgagagccttcctatcgaac	369843	-	see also 21316 line
48155	FLJ11000	NM_018295.1	354	acctgagaatcggctcttataac	369863	-	see also 21317 line
48156	FLJ11000	NM_018295.1	353	aacctgagaatcggctcttataa	369862	-	see also 21317 line
48157	FLJ11004	NM_018296.2	1806	tgcgcagctggtccctaatgaca	369891	-	see also 21318 line
48158	FLJ11004	NM_018296.2	2228	atgagactggtcagtatctataa	369905	-	see also 21318 line
48159	FLJ11017	NM_018302.1	760	agctggagacaaacgttgatcata	369978	-	see also 21319 line
48160	FLJ11017	NM_018302.1	1061	gcggagggcccttcagctttaga	369984	-	see also 21319 line
48161	FLJ11021	NM_023012.3	1106	agccgctgtaatacctaagaat	384976	-	see also 21320 line
48162	FLJ11021	NM_023012.3	1082	agctgttcctagctactataacc	384973	-	see also 21320 line
48163	FLJ11029	NM_018304.1	891	gtgttatcactcgtggttacaac	370008	-	see also 21321 line
48164	FLJ11029	NM_018304.1	901	ctcgaggttacaacgctctaatac	370009	-	see also 21321 line
48165	FLJ11036	NM_018306.2	439	tggagagcctgaacttttgaagg	370021	-	see also 21322 line
48166	FLJ11036	NM_018306.2	555	aagtggagggcctcagtttaaga	370023	-	see also 21322 line
48167	FLJ11046	NM_018309.1	1964	atcttggcaatgaaggtattt	370091	-	see also 7384 line
48168	FLJ11046	NM_018309.1	423	aactgccacgcagcgtttatac	370043	-	see also 7384 line
48169	FLJ11046	NM_018309.1	427	gccagcagcaggtttatacaact	370045	-	see also 7384 line
48170	FLJ11082	NM_018317.1	741	ctgggtatagatgattctacaca	370225	-	see also 7399 line
48171	FLJ11082	NM_018317.1	1426	aaccacttcgcatactatttaag	370247	-	see also 7399 line
48172	FLJ11088	NM_018318.2	250	tagcaattgtagtcaaaactattc	370257	-	see also 21325 line
48173	FLJ11088	NM_018318.2	168	tggaccgtgaccactctcttcc	370255	-	see also 21325 line
48174	FLJ11127	NM_019018.1	256	tccggagggtacattatattc	374471	-	see also 21326 line
48175	FLJ11127	NM_019018.1	959	gactagagcagattgattgttt	374486	-	see also 21326 line
48176	FLJ11171	NM_018348.4	2092	ttegaactctcgttaatacaaaa	370623	-	see also 21327 line
48177	FLJ11171	NM_018348.4	1796	tccaactttgagttcacttatg	370616	-	see also 21327 line
48178	FLJ11184	NM_018352.1	156	aggtcaatcccatcatagtaga	370641	-	see also 21328 line
48179	FLJ11184	NM_018352.1	158	gtcatcatcatatagtagaaa	370642	-	see also 21328 line
48180	FLJ11193	NM_018356.1	305	cagcagacacccgttttgataag	370657	-	see also 21329 line
48181	FLJ11193	NM_018356.1	1175	ttcaccaggtcgtttaacctgc	370681	-	see also 21329 line
48182	FLJ11200	NM_018359.1	1128	accaattgactggtataacgtca	370726	-	see also 7413 line
48183	FLJ11200	NM_018359.1	1133	tgtatcgggtataacgtcaaaaat	370727	-	see also 7413 line
48184	FLJ11200	NM_018359.1	1432	tcctcagcgcacaaattgattt	370741	-	see also 7413 line
48185	FLJ11218	NM_018363.1	323	gcctotaagctgcctattgaag	370775	-	see also 21331 line

図46 (続き)

1285

48186	FLJ11218	NM_018363.1	724	tacgtctctccatgataat	370791	-	see also 21331 line
48187	FLJ11220	NM_018364.2	1790	atgtcggtcagggtttgactgg	370833	-	see also 7417 line
48188	FLJ11220	NM_018364.2	1866	aagacgaagatcaatgaatgaaa	370829	-	see also 7417 line
48189	FLJ11235	NM_019033.1	16	atgaagcgtcgtggtttttttt	374580	-	see also 21333 line
48190	FLJ11235	NM_019033.1	252	gccgtgtgtagccaagtcaagc	374583	-	see also 21333 line
48191	FLJ11259	NM_018370.1	90	ggcattgtgcgaattttcagg	370890	-	see also 7424 line
48192	FLJ11259	NM_018370.1	88	atggcattgtgcgaattttca	370889	-	see also 7424 line
48193	FLJ11267	NM_019607.1	366	ctgtcggagagcaactggaaacc	375505	-	see also 21335 line
48194	FLJ11267	NM_019607.1	656	gaccagatgtaccagatttgaaa	375510	-	see also 21335 line
48195	FLJ11280	NM_018379.2	990	gtcagaggacttcagcttaatt	370932	-	see also 21336 line
48196	FLJ11280	NM_018379.2	1367	agggtagaacttagcgtcttttc	370938	-	see also 21336 line
48197	FLJ11280	NM_018379.2	1377	tagcgtcttttcgaaacaacc	370939	-	see also 21336 line
48198	FLJ11286	NM_018381.1	231	atcgtgtacgggttaagcaaaa	370951	-	see also 21337 line
48199	FLJ11286	NM_018381.1	362	agccaacttacgcattgttcaac	370959	-	see also 21337 line
48200	FLJ11292	NM_018382.1	152	tggactctggcagcaaatcca	370964	-	see also 21338 line
48201	FLJ11292	NM_018382.1	160	tggcagcaaatccaactgtat	370965	-	see also 21338 line
48202	FLJ11301	NM_018385.1	1386	agcgggaatcctcccaattgatca	370995	-	see also 21339 line
48203	FLJ11301	NM_018385.1	1385	cagcgaatcctcccaattgatc	370994	-	see also 21339 line
48204	FLJ11305	NM_018386.1	657	agcgacacccgtcgtgtataga	371015	-	see also 21340 line
48205	FLJ11305	NM_018386.1	288	accgtgatgtccaatactcttt	371011	-	see also 21340 line
48206	FLJ11331	NM_018392.3	1276	tagaccagtcagctcggttaata	371055	-	see also 21341 line
48207	FLJ11331	NM_018392.3	2148	ccccgaataaatcaaggtat	371078	-	see also 21341 line
48208	FLJ11336	NM_018393.2	1668	tgtcgcctggtaacataaca	371137	-	see also 7437 line
48209	FLJ11362	NM_021946.2	2931	tagcgtggggacattcgaatga	381553	-	see also 8209 line
48210	FLJ11362	NM_021946.2	1610	tccgtttaccctgctgcatctt	381544	-	see also 8209 line
48211	FLJ11383	NM_014801.2	107	acgacaaagtcaagtaatacctgt	343677	-	see also 21344 line
48212	FLJ11383	NM_014801.2	1305	tggggcttctccgagataactgt	343705	-	see also 21344 line
48213	FLJ11457	NM_024753.2	3922	gacaaatccggcagtaggataca	390073	-	see also 21345 line
48214	FLJ11457	NM_024753.2	3795	aacgtgctcgtcgtcataataga	390083	-	see also 21345 line
48215	FLJ11467	NM_024963.2	1811	ccgcgtctcagacatgttgaag	392755	-	see also 21346 line
48216	FLJ11467	NM_024963.2	1878	cagcgccaacgcccgattcttc	392757	-	see also 21346 line
48217	FLJ11506	NM_024666.2	680	atcgggtgtgcatcataacaca	388798	-	see also 21347 line
48218	FLJ11506	NM_024666.2	327	atggttacctggaggatgatct	388794	-	see also 21347 line
48219	FLJ11526	NM_024632.1	1000	accctacgacgtataaacgaca	388331	-	see also 21348 line
48220	FLJ11526	NM_024632.1	997	aacaccctacgacgtataaacg	388330	-	see also 21348 line
48221	FLJ11535	NM_024888.1	333	tggcggagggaatgtgtactgt	391714	-	see also 21349 line
48222	FLJ11535	NM_024888.1	157	ttccatgtactctgttacttcc	391713	-	see also 21349 line
48223	FLJ11560	NM_025182.2	1586	caccgtccaagtggaccttatta	394293	-	see also 8874 line
48224	FLJ11560	NM_025182.2	1887	accggggccctcataatccacg	394298	-	see also 8874 line
48225	FLJ11588	NM_024603.1	823	cagcgtcccccattgatctgg	387743	-	see also 8659 line
48226	FLJ11712	NM_024570.1	550	cacacctggagatcctctatttc	387340	-	see also 21351 line
48227	FLJ11712	NM_024570.1	639	tggataacgtgtttccaaattgc	387344	-	see also 21351 line
48228	FLJ11730	NM_022756.3	127	gagcagacatctatgtcttttga	383970	-	see also 21352 line
48229	FLJ11730	NM_022756.3	550	agcccgcttggaatgtttgatta	383980	-	see also 21352 line

1286

図4-6 (続き)

48230	FLJ11730	NM_022756.3	245	atcgaggaacccggaagttaag	383972	-	see also 21352 line
48231	FLJ11752	NM_152281.1	998	ggagaccagtggttggttagaga	415324	-	see also 9829 line
48232	FLJ11752	NM_152281.1	810	cagcgcaagactgagataaaga	415320	-	see also 9829 line
48233	FLJ11753	NM_024659.2	552	ttcacgagaacacagtgatata	388667	-	see also 8689 line
48234	FLJ11753	NM_024659.2	1345	ttggcgagccctacatggtaat	388694	-	see also 8689 line
48235	FLJ11773	NM_021934.3	526	cacaggaagttccactacaaga	381380	-	see also 21355 line
48236	FLJ11773	NM_021934.3	934	cacacagtgagggtgataacg	381384	-	see also 21355 line
48237	FLJ11785	NM_021930.2	2227	ttgatattactgggaacttttc	381361	-	see also 8200 line
48238	FLJ11785	NM_021930.2	1076	agggaacccgagactaatgtgt	381316	-	see also 8200 line
48239	FLJ11795	NM_024669.1	660	ctgcagatgttactagataacc	388818	-	see also 21357 line
48240	FLJ11795	NM_024669.1	298	ccagcaggaacccgatacagaga	388811	-	see also 21357 line
48241	FLJ11800	NM_024974.1	101	tgctccgaaacacatcactga	392758	-	see also 21358 line
48242	FLJ11800	NM_024974.1	304	cacagagctttggcgaattact	392761	-	see also 21358 line
48243	FLJ11848	NM_025155.1	1166	tgctgcgagacgtgtgtacg	394136	-	see also 21360 line
48244	FLJ11848	NM_025155.1	964	tcacaaggctcgggtacagtcg	394133	-	see also 21360 line
48245	FLJ11856	NM_024531.3	644	ggcagagaacgttgcttctgtgg	386783	-	see also 21361 line
48246	FLJ11856	NM_024531.3	751	ctcgtcttaaggtcattctto	386784	-	see also 21361 line
48247	FLJ12056	NM_024933.1	117	tcacgagcagcaggcgaacaaagt	392318	-	-
48248	FLJ12057	NM_024768.1	851	tgctccgggacactgaacatctcg	390318	-	see also 21362 line
48249	FLJ12057	NM_024768.1	855	ccgggacactgaacatctgaaaa	390319	-	see also 21362 line
48250	FLJ12085	NM_022771.3	746	cccttatcagcaactatgatag	384059	-	see also 8462 line
48251	FLJ12085	NM_022771.3	938	ggggaaacccctgtgtgttcaaa	384087	-	see also 8462 line
48252	FLJ12150	NM_024736.4	998	cccaagcaaccctgctttattt	389759	-	see also 21364 line
48253	FLJ12150	NM_024736.4	694	tggaaacccctgtatagtgtgt	389755	-	see also 21364 line
48254	FLJ12168	NM_024682.1	1362	ctctcaactactgcatgataca	389125	-	see also 21365 line
48255	FLJ12168	NM_024682.1	1161	aaggcccaacatcgcgaagaaac	389122	-	see also 21365 line
48256	FLJ12168	NM_024682.1	1427	cccgatcctctagtcattcaga	389126	-	see also 21365 line
48257	FLJ12355	NM_024988.1	374	cggcgtggagtcgcgattttt	392770	-	see also 21366 line
48258	FLJ12355	NM_024988.1	375	ggcgtggagtcgcgatttttt	392771	-	see also 21366 line
48259	FLJ12355	NM_024988.1	376	gcgtggagtcgcgattttttt	392772	-	see also 21366 line
48260	FLJ12363	NM_032167.1	280	cagcgggctttgcccagcaaac	398408	-	see also 21367 line
48261	FLJ12363	NM_032167.1	191	ctgtctgtgtgcccagttgaag	398407	-	see also 21367 line
48262	FLJ12436	NM_024661.2	996	atggcctagaaaaagactgttagc	388717	-	see also 21368 line
48263	FLJ12436	NM_024661.2	953	aggcaagtccttctgcttaga	388713	-	see also 21368 line
48264	FLJ12438	NM_021933.1	1144	ctcgaagctctggagaaagctca	381379	-	-
48265	FLJ12438	NM_021933.1	794	aaccacaagaggaggttatct	381378	-	see also 48264 line
48266	FLJ12439	NM_023077.1	708	aagggttcccaacccttaacatt	385255	-	see also 21369 line
48267	FLJ12439	NM_023077.1	659	ggcggaggtgtcaaaaatcgagc	385254	-	see also 21369 line
48268	FLJ12442	NM_022908.1	1379	accggatcacccgcttagaaaaag	384789	-	see also 21370 line
48269	FLJ12442	NM_022908.1	1477	ttcgggaaccactctctagtga	384792	-	see also 21370 line
48270	FLJ12442	NM_022908.1	461	ggcctgtgaactgtctagaaaaag	384773	-	see also 21370 line
48271	FLJ12448	NM_022895.1	43	ctgtgagcggatcggaagaagtagt	384690	-	see also 21371 line
48272	FLJ12448	NM_022895.1	49	gcgattcggaaagtgtatcaacgc	384692	-	see also 21371 line
48273	FLJ12505	NM_024749.2	668	accctacactacttaaccaatgg	389908	-	see also 21372 line

図 46 (続き)

1287

48274	FLJ12505	NM_024749.2	667	gaccctacactacttaacccatg	389907	-	see also 21372 line
48275	FLJ12517	NM_023007.1	609	ctcgtccgaactggctgaatgagt	384930	-	see also 21373 line
48276	FLJ12517	NM_023007.1	1120	tccttgcctggcgacatcaacttga	384935	-	see also 21373 line
48277	FLJ12517	NM_023007.1	572	ttccggtggagagacgttttcacc	384929	-	see also 21373 line
48278	FLJ12525	NM_031206.2	1376	gacggaatgctcgcgcgatttct	395944	-	see also 8988 line
48279	FLJ12525	NM_031206.2	971	accctgcccgcgtgtagaatgt	395941	-	see also 8988 line
48280	FLJ12525	NM_031206.2	881	cccgagaaactctggtatcatatc	395934	-	see also 8988 line
48281	FLJ12541	NM_022369.2	1846	cacgtaccgaaactcttgaaga	382735	-	see also 21375 line
48282	FLJ12541	NM_022369.2	1060	gacaggagcggccattaccagg	382732	-	see also 21375 line
48283	FLJ12571	NM_024926.1	1382	agctcgtgctatattatgaata	392302	-	see also 8808 line
48284	FLJ12571	NM_024926.1	1078	tgggttcaaggcatatataaaa	392291	-	see also 8808 line
48285	FLJ12572	NM_022905.2	993	aagcacgagatcagattatattt	384763	-	see also 21377 line
48286	FLJ12572	NM_022905.2	650	tgcgttagcactgcacaaagtgtg	384757	-	see also 21377 line
48287	FLJ12577	NM_030925.1	493	tacgttgagttgtcaacattga	395518	-	see also 21378 line
48288	FLJ12577	NM_030925.1	707	ttgccatcatgcacaaagtatctc	395525	-	see also 21378 line
48289	FLJ12584	NM_025139.2	1570	ggcaggcctcgtgtcaaatgctc	393944	-	see also 8868 line
48290	FLJ12584	NM_025139.2	973	ctcctggcaccctggaaattga	393937	-	see also 8868 line
48291	FLJ12598	NM_024754.2	1078	atctcacagttgctattaaaca	390087	-	see also 21380 line
48292	FLJ12598	NM_024754.2	732	tagctctgaatcagaatgagatg	390081	-	see also 21380 line
48293	FLJ12604	NM_024821.1	1265	ggccaacatggagcattcgtttc	388090	-	see also 8669 line
48294	FLJ12604	NM_024821.1	1266	ggcaacatggagcattcgtttc	388091	-	see also 8669 line
48295	FLJ12604	NM_024821.1	2591	cctcgacgactgcacaaatagaac	388122	-	see also 8669 line
48296	FLJ12610	NM_024782.1	598	tacgtctattcagatcgtattga	390651	-	see also 21382 line
48297	FLJ12610	NM_024782.1	823	aggaatcagatgccaatgtgtaa	390652	-	see also 21382 line
48298	FLJ12650	NM_024522.1	486	ccccaagaagcgtcgtcatttaca	386633	-	see also 21383 line
48299	FLJ12650	NM_024522.1	131	tggctgaatgcatttatcatct	386631	-	see also 21383 line
48300	FLJ12666	NM_024595.1	536	ctccgacaaagtggcacaatatg	387714	-	see also 21384 line
48301	FLJ12666	NM_024595.1	560	gagccctctttaaagactatga	387718	-	see also 21384 line
48302	FLJ12666	NM_024595.1	558	gtgagcgcctcttaaagactat	387717	-	see also 21384 line
48303	FLJ12681	NM_022773.1	176	ggccctgactcctgtgtacttcg	384093	-	see also 21385 line
48304	FLJ12681	NM_022773.1	1543	gagcgcctacacaggtacaaattc	384103	-	see also 21385 line
48305	FLJ12684	NM_024534.2	836	tcggacactatctatctgaact	386841	-	see also 21386 line
48306	FLJ12684	NM_024534.2	830	cagtttccggacactatctatc	386840	-	see also 21386 line
48307	FLJ12684	NM_024534.2	1465	cagctatttcgaaccattttg	386865	-	see also 21386 line
48308	FLJ12700	NM_024910.1	470	agggggaggtcccttaagactacg	391976	-	see also 21387 line
48309	FLJ12716	NM_021942.4	918	agggacgcttataatctgttaca	381414	-	see also 21388 line
48310	FLJ12716	NM_021942.4	3294	accgactagttcaagatgtaga	381498	-	see also 21388 line
48311	FLJ12748	NM_024871.1	420	cacgtctgacacaggaattcc	391584	-	-
48312	FLJ12748	NM_024871.1	603	ctcagctctcccggtctctcaacg	391587	-	see also 48311 line
48313	FLJ12748	NM_024871.1	463	ccctcaagatccacaagacaaaa	391585	-	see also 48311 line
48314	FLJ12750	NM_024667.1	797	ggcgtgcgcgtaccaggtattaca	388808	-	see also 21389 line
48315	FLJ12750	NM_024667.1	755	cgcttagccaccctgttactgc	388807	-	see also 21389 line
48316	FLJ12787	NM_032175.1	495	tacgtgtccatcatcaagagagt	398503	-	see also 9086 line
48317	FLJ12788	NM_022492.1	87	tgcgtgaccccaactttgcaagg	383484	-	see also 21391 line

1288

図 46 (続き)

48318	FLJ12788	NM_022492.1	92	caccacaaatttgcaggaattc	383485	-	see also 21391 line
48319	FLJ12806	NM_022831.1	248	gcgatagacgagatcagatatt	384467	-	see also 21392 line
48320	FLJ12806	NM_022831.1	247	ggcgatagacgagatcagatatt	384466	-	see also 21392 line
48321	FLJ12875	NM_024544.1	353	agctgtcggctctgttaagaaa	386944	-	see also 21393 line
48322	FLJ12875	NM_024544.1	327	tgcgtgcttattgctgttataga	386942	-	see also 21393 line
48323	FLJ12886	NM_019108.1	460	gtcgttggtgaagccaaactact	375243	-	see also 21394 line
48324	FLJ12886	NM_019108.1	658	gaggaccagaggactatgtttt	375247	-	see also 21394 line
48325	FLJ12903	NM_022753.1	507	aactaagaccaggactactgttc	383966	-	see also 21395 line
48326	FLJ12903	NM_022753.1	504	ttcaacagactctctgatataa	383955	-	see also 21395 line
48327	FLJ12949	NM_023008.2	464	aggagacatgctgcgaagtatt	384947	-	see also 21396 line
48328	FLJ12949	NM_023008.2	982	tcctcgtgctgcgtgaagtgatga	384952	-	see also 21396 line
48329	FLJ12953	NM_032118.2	140	cgcctcgcaacctcaactgtttt	397779	-	see also 9076 line
48330	FLJ12953	NM_032118.2	327	ctcacatgaggaatacagatgt	397785	-	see also 9076 line
48331	FLJ12973	NM_024908.1	723	tcacaacacgcgcgaattagtag	391917	-	see also 21397 line
48332	FLJ12973	NM_024908.1	669	aaggtcaatgcgattactataaag	391913	-	see also 21397 line
48333	FLJ12975	NM_024809.2	1667	tcctgattacgtctgatttattga	390916	-	see also 21398 line
48334	FLJ12975	NM_024809.2	1119	ttgccttagagagacagtattaca	390898	-	see also 21398 line
48335	FLJ12994	NM_022841.2	3449	ttcatcgcaacgtgattcttagt	384629	-	see also 21399 line
48336	FLJ12994	NM_022841.2	2927	ggcgacatcacacccattggtact	384609	-	see also 21399 line
48337	FLJ13031	NM_024688.1	1052	aaggcgtaatactcgtattgttag	389259	-	see also 21400 line
48338	FLJ13031	NM_024688.1	2001	atgtccgtacacgtcaagaagg	389286	-	see also 21400 line
48339	FLJ13081	NM_024834.1	1376	cacagaacacttgatcagaatta	391265	-	see also 21401 line
48340	FLJ13081	NM_024834.1	576	ggggaaatctcgtgggtaaaaga	391237	-	see also 21401 line
48341	FLJ13089	NM_024953.2	295	tgcacccgacccaggttagttaca	392606	-	see also 8822 line
48342	FLJ13089	NM_024953.2	1005	ggagctgattaggggtttacgaag	392638	-	see also 8822 line
48343	FLJ13096	NM_025000.1	759	cactacatcgtcacacctaaataa	392875	-	see also 21403 line
48344	FLJ13096	NM_025000.1	1061	ttctggacgggtgggtaaaaaaa	392898	-	see also 21403 line
48345	FLJ13110	NM_022912.1	189	cacccttaacctcgcgtattatt	384796	-	see also 8530 line
48346	FLJ13110	NM_022912.1	190	acctttacacctcgcgtattatt	384797	-	see also 8530 line
48347	FLJ13110	NM_022912.1	686	aacacggccagccctaagatgtcc	384801	-	see also 8530 line
48348	FLJ13114	NM_024541.1	44	ttccctgccgtcctttagtatgt	386911	-	see also 8635 line
48349	FLJ13114	NM_024541.1	185	gtcgggtacgcctgcctacacac	386920	-	see also 8635 line
48350	FLJ13150	NM_024813.1	1534	aacgcatactgacttgaagaattg	390997	-	see also 21405 line
48351	FLJ13150	NM_024813.1	294	gtcgtggtgaacggttctattgt	390970	-	see also 21405 line
48352	FLJ13150	NM_024813.1	998	aactctataggcataagtaaga	390985	-	see also 21405 line
48353	FLJ13154	NM_024598.1	329	caccacagctatgtaccatattg	387722	-	-
48354	FLJ13154	NM_024598.1	330	accacgctctatgtaccatattga	387723	-	see also 48353 line
48355	FLJ13154	NM_024598.1	333	cacgctatgtaccatattgaagc	387724	-	see also 48353 line
48356	FLJ13188	NM_022063.1	660	tagatttgacccgcctgttaaaa	381783	-	see also 8259 line
48357	FLJ13188	NM_022063.1	599	gtgaacgcgtcctcaaatgaacc	381781	-	see also 8259 line
48358	FLJ13197	NM_024614.1	148	gtgaggagacaggactactttt	387969	-	see also 21407 line
48359	FLJ13197	NM_024614.1	150	gaggagagacaggactactttgc	387970	-	see also 21407 line
48360	FLJ13215	NM_025004.1	803	caccgcttagcatcttttaaac	393088	-	see also 21408 line
48361	FLJ13215	NM_025004.1	524	taccgagtaataacaaattag	393077	-	see also 21408 line

1289

図46 (続き)

48362	FLJ13231	NM_023073.2	2670	atgataaggtggctctaataag	385138	-	see also 21409 line
48363	FLJ13231	NM_023073.2	1539	gaggacgtgagggttccttaag	385106	-	see also 21409 line
48364	FLJ13236	NM_024902.2	895	ggcatcgccgctacaagaatttg	391883	-	see also 21410 line
48365	FLJ13236	NM_024902.2	1251	ctctagaagggggcaacaaatga	391887	-	see also 21410 line
48366	FLJ13263	NM_025125.2	348	agcgtctctaccactcattgattg	393822	-	see also 21411 line
48367	FLJ13263	NM_025125.2	373	tacaacagggaagcccaaaaaca	393825	-	see also 21411 line
48368	FLJ13273	NM_024751.1	1593	ttctgacagcgtggggctatttta	389941	-	see also 21412 line
48369	FLJ13273	NM_024751.1	1595	ctgcagcaggtggggtattttatc	389942	-	see also 21412 line
48370	FLJ13291	NM_032178.1	418	ctcgggcttcaggttttagaac	398530	-	see also 21413 line
48371	FLJ13291	NM_032178.1	82	ggctcttgctcgtcgttgtaaac	398529	-	see also 21413 line
48372	FLJ13310	NM_025118.1	701	tgccaatagctggggcagtttatc	393806	-	see also 21414 line
48373	FLJ13310	NM_025118.1	939	gtgctttggtcgaagaatagacc	393814	-	see also 21414 line
48374	FLJ13330	NM_025091.2	494	ggccaccgccatcctaatacagg	393567	-	see also 21415 line
48375	FLJ13330	NM_025091.2	408	ctgaaaaagtcacctcgttttaa	393565	-	see also 21415 line
48376	FLJ13352	NM_024592.1	286	ggcgcctgcggaggcctttgatgt	387670	-	see also 21416 line
48377	FLJ13352	NM_024592.1	288	cgccctgcggagcctttgatgtcc	387671	-	see also 21416 line
48378	FLJ13386	NM_025180.2	2172	ggagacaagcgtcggagatagata	394237	-	see also 8873 line
48379	FLJ13386	NM_025180.2	2295	tgccctcagcgcctagatacaaat	394241	-	see also 8873 line
48380	FLJ13391	NM_032181.1	500	tagcggcctattcctttgtctca	398540	-	see also 21418 line
48381	FLJ13391	NM_032181.1	584	cctggctcctctgtgtgataagg	398542	-	see also 21418 line
48382	FLJ13441	NM_023924.1	653	ggcagataccgtgtactacaagt	385316	-	see also 21419 line
48383	FLJ13441	NM_023924.1	652	ggcagataccgtgtactacaag	385315	-	see also 21419 line
48384	FLJ13441	NM_023924.1	691	ttcacgcaggccttaagatgatg	385319	-	see also 21419 line
48385	FLJ13544	NM_025008.1	522	ctcgggagtgattatgtgtact	393110	-	see also 21420 line
48386	FLJ13544	NM_025008.1	517	ccagctcgggagtgaggattatgt	393108	-	see also 21420 line
48387	FLJ13576	NM_022484.2	1839	ggccagacatgatacgtattatt	383322	-	see also 21421 line
48388	FLJ13576	NM_022484.2	1988	atcgattagacagcgaaatttc	383331	-	see also 21421 line
48389	FLJ13576	NM_022484.2	807	gtcatcgccaccttactaacoc	383289	-	see also 21421 line
48390	FLJ13611	NM_024941.1	260	cagttatatacaggttcataatg	392359	-	see also 8813 line
48391	FLJ13611	NM_024941.1	655	tggagccatctattatgtacaat	392373	-	see also 8813 line
48392	FLJ13614	NM_139076.1	1034	ttcaagagatctcgggtgttaga	409351	-	see also 21423 line
48393	FLJ13614	NM_139076.1	405	atcgactggaacatccttattat	409328	-	see also 21423 line
48394	FLJ13614	NM_139076.1	807	gtcaggccattacggaccctttt	409339	-	see also 21423 line
48395	FLJ13615	NM_025114.1	1700	atcgggagtatcgttttagaag	393786	-	see also 21424 line
48396	FLJ13615	NM_025114.1	1570	ttcagtaacgttagacatttta	393763	-	see also 21424 line
48397	FLJ13621	NM_025009.1	343	ttcagcgacttagttcataaac	393115	-	see also 21425 line
48398	FLJ13621	NM_025009.1	346	agcagcttagttcatacaactga	393116	-	see also 21425 line
48399	FLJ13639	NM_024705.1	226	atgcgcaagcggaaacatttttc	399442	-	see also 21426 line
48400	FLJ13639	NM_024705.1	522	atgatctccagtcggaagaaca	399446	-	see also 21426 line
48401	FLJ13657	NM_024828.1	246	ctgctgtgggaagcccaatttta	391151	-	see also 21427 line
48402	FLJ13657	NM_024828.1	478	gtgtcattgaaccacagttagttt	391154	-	see also 21427 line
48403	FLJ13710	NM_024817.1	109	agcgtccaatagatttcogagc	391054	-	see also 21428 line
48404	FLJ13710	NM_024817.1	559	aagatcgcagtaacctattttc	391062	-	see also 21428 line
48405	FLJ13710	NM_024817.1	449	tcgccatcgacccggaacttgg	391057	-	see also 21428 line

図 46 (続き)

1290

48406	FLJ13725	NM_024519.2	2536	ggagtgaccgcctagaaagtct	386603	-	see also 21429 line
48407	FLJ13725	NM_024519.2	739	ctgtgttaggcgcatcagatga	386578	-	see also 21429 line
48408	FLJ13744	NM_025011.1	653	atggatcgcgtctatgtgaatga	393147	-	see also 21430 line
48409	FLJ13744	NM_025011.1	529	ggagcgaactccggtatcattg	393140	-	see also 21430 line
48410	FLJ13798	NM_024773.1	246	ctctgcgcacacgtaaagaaga	390443	-	see also 21431 line
48411	FLJ13798	NM_024773.1	678	aggcggaccacgtgtttgattcc	390451	-	see also 21431 line
48412	FLJ13840	NM_024746.2	1364	ggcggaggccggatattctgtgg	389880	-	see also 21432 line
48413	FLJ13840	NM_024746.2	991	ttctcgggctgacctaacaag	389875	-	see also 21432 line
48414	FLJ13840	NM_024746.2	1064	aaccataatggcggacaactct	389877	-	see also 21432 line
48415	FLJ13841	NM_024702.1	1403	gtcgggttcgaagtcacattcc	389434	-	see also 21433 line
48416	FLJ13841	NM_024702.1	1174	tcacgccacatacgtactactaca	389426	-	see also 21433 line
48417	FLJ13868	NM_022744.1	1234	gtgcggcgagtccttaagaaga	383859	-	see also 8452 line
48418	FLJ13868	NM_022744.1	379	aacggcaaaagccactgtttcagc	383850	-	see also 8452 line
48419	FLJ13910	NM_022780.2	1079	gtcgtgtatcaactatatttg	384185	-	see also 8471 line
48420	FLJ13910	NM_022780.2	971	ggcgcgtcagctttaataaca	384181	-	see also 8471 line
48421	FLJ13912	NM_022770.2	501	cagactttatcggagcttttcg	384027	-	see also 21437 line
48422	FLJ13912	NM_022770.2	680	ttcaaacctgttcgaactaca	384029	-	see also 21437 line
48423	FLJ13912	NM_022770.2	203	gctcgccttggcgctttctcc	384024	-	see also 21437 line
48424	FLJ13941	NM_024848.1	660	agctacggaggtatgtatttgg	391423	-	see also 21438 line
48425	FLJ13941	NM_024848.1	95	acggttatgtgtctactatatac	391416	-	see also 21438 line
48426	FLJ13946	NM_152275.2	755	ctctacaggaggacacagtatga	415288	-	see also 21439 line
48427	FLJ13946	NM_152275.2	2205	cagatgagtcacgacaattgaa	415293	-	see also 21439 line
48428	FLJ13955	NM_024759.1	790	cggatggcagttcgtctatg	390149	-	see also 8739 line
48429	FLJ13955	NM_024759.1	1088	gtgtgtccagttaatacatattt	390156	-	see also 8739 line
48430	FLJ13962	NM_024862.1	584	gggaaattgttaactcgtatgg	391552	-	see also 8794 line
48431	FLJ13984	NM_024770.1	611	aactagtgtctacaactcgtttct	390349	-	see also 21441 line
48432	FLJ13984	NM_024770.1	504	aagtttcaaggatcgtatg	390346	-	see also 21441 line
48433	FLJ14001	NM_024677.3	481	cggcgaactggagtttcgaac	389013	-	see also 21442 line
48434	FLJ14001	NM_024677.3	593	tcgggaactccgtttatgcatgg	389017	-	see also 21442 line
48435	FLJ14001	NM_024677.3	482	ggcgaactggagtttccgaacg	389014	-	see also 21442 line
48436	FLJ14009	NM_024760.1	565	ggcgaactcggcgagttttgg	390161	-	see also 21443 line
48437	FLJ14009	NM_024760.1	806	ctcggttttacagtcacatcc	390163	-	see also 21443 line
48438	FLJ14009	NM_024760.1	1343	atcctgtatggagtcgaagtatc	390166	-	see also 21443 line
48439	FLJ14054	NM_024563.2	641	tacagacctactataattctc	387318	-	see also 21445 line
48440	FLJ14054	NM_024563.2	778	tccttattcaagcgttctaataa	387319	-	see also 21445 line
48441	FLJ14075	NM_024894.1	335	ctcgggttgatgttatgacacc	391726	-	see also 21446 line
48442	FLJ14075	NM_024894.1	333	acctcgggttcggtgtatgaca	391725	-	see also 21446 line
48443	FLJ14075	NM_024894.1	1397	ttctcacggatgatcattttaa	391750	-	see also 21446 line
48444	FLJ14084	NM_021637.1	135	atccccagagaacctgaactatg	380943	-	see also 21447 line
48445	FLJ14084	NM_021637.1	448	ctgtgtcgggtgatcctctcaaacg	380949	-	see also 21447 line
48446	FLJ14103	NM_024689.1	231	gactttccgtctcttgataaat	389306	-	see also 8696 line
48447	FLJ14103	NM_024689.1	345	tcggattcctcgtttcttctc	389310	-	see also 8696 line
48448	FLJ14117	NM_022777.1	510	tcggatgggaattcataagtat	384122	-	-
48449	FLJ14129	NM_030895.1	638	ggccgggtcactctcgagaaact	395375	-	-

1291

48450	FLJ14146	NM_024709.2	396	gtcgggaaggtcatcatcaaaagg	389488	-	see also 21450 line
48451	FLJ14166	NM_024565.4	1296	ccccgtcagacacctatgcttgg	387328	-	see also 21451 line
48452	FLJ14166	NM_024565.4	1108	cacctcagcacgftgtttaaat	387326	-	see also 21451 line
48453	FLJ14166	NM_024565.4	1487	gctctgccacacacctatggaagc	387330	-	see also 21451 line
48454	FLJ14297	NM_024903.1	339	cacgaagtgagaggaactcatacc	391889	-	-
48455	FLJ14299	NM_025089.1	1890	ccacagccggagacctactattc	393469	-	see also 21452 line
48456	FLJ14299	NM_025089.1	1656	ctgcgggagccggagaaactctt	393467	-	see also 21452 line
						transcription_regulat	-
48457	FLJ14345	NM_024733.2	655	ctcacggctaacaaagtoataaga	389741	-	or
48458	FLJ14345	NM_024733.2	289	agcgtttacacggtgaagtgg	389737	-	see also 48457 line
48459	FLJ14345	NM_024733.2	648	gtcaaaactcacggcttaacaagt	389739	-	see also 48457 line
48460	FLJ14351	NM_024732.1	336	atgatgagactccctttttatgc	389728	-	see also 21453 line
48461	FLJ14351	NM_024732.1	600	ggcccaactggctgcacaacagtag	389736	-	see also 21453 line
48462	FLJ14351	NM_024732.1	389	ttctgtgtggccagactcttagc	389730	-	see also 21453 line
48463	FLJ14397	NM_032779.2	507	gtcggctgtgcgactcatgaaga	401447	-	see also 21454 line
48464	FLJ14397	NM_032779.2	2144	aggaggttcacagccacgaattg	401454	-	see also 21454 line
48465	FLJ14399	NM_032780.2	865	ccgggcacccactctctgatatca	401463	-	see also 21455 line
48466	FLJ14399	NM_032780.2	1094	ccaagtctgggctatatctatc	401467	-	see also 21455 line
48467	FLJ14399	NM_032780.2	887	aggtgactccaacaacctaaaac	401465	-	see also 21455 line
48468	FLJ14464	NM_032789.1	1010	tgcagggttagaggattatgaca	401515	-	see also 21455 line
48469	FLJ14464	NM_032789.1	1496	cactgaagacaggatatgaact	401518	-	see also 21456 line
48470	FLJ14466	NM_032790.2	574	acctgttggtcgtcatgatcagc	401519	-	-
48471	FLJ14466	NM_032790.2	904	tgccttcggcctgattcttctatc	401520	-	see also 48470 line
48472	FLJ14503	NM_152780.2	673	ttcaccaactcgaacaacttgaga	421081	-	see also 21457 line
48473	FLJ14503	NM_152780.2	2138	agcctggacgactgtaacaaaaa	421098	-	see also 21457 line
48474	FLJ14525	NM_032800.1	96	agcgaagcggcttcactacttc	401545	-	see also 21458 line
48475	FLJ14525	NM_032800.1	341	ttcggggacgagatataacttg	401546	-	see also 21458 line
48476	FLJ14564	NM_032550.1	1153	cccggtatgccagcggctttaact	400653	-	see also 21459 line
48477	FLJ14564	NM_032550.1	1706	gtgaagtccggccaaaaactctot	400660	-	see also 21459 line
48478	FLJ14566	NM_032806.4	1143	ttgcacgggttatgcagacaaaag	401582	-	see also 21460 line
48479	FLJ14566	NM_032806.4	1190	ccccttagccggagggtacattct	401584	-	see also 21460 line
48480	FLJ14566	NM_032806.4	1137	ggcagtttgacaggttcatacaca	401581	-	see also 21460 line
48481	FLJ14594	NM_032808.2	895	ggccgtccggccacctagtctctc	401593	-	see also 21461 line
48482	FLJ14594	NM_032808.2	1201	cgcgttggcggctcaacttcaacc	401594	-	see also 21461 line
48483	FLJ14624	NM_032813.1	390	agcgcgactggagggttaattgcaat	401608	-	see also 21462 line
48484	FLJ14624	NM_032813.1	271	tgtctgtgaggggccggtaaactac	401602	-	see also 21462 line
48485	FLJ14639	NM_032815.2	1122	ctgagagattccctctctaaagacc	401654	-	see also 21463 line
48486	FLJ14639	NM_032815.2	1120	gtctctggaggtccctctctaaaga	401653	-	see also 21463 line
48487	FLJ14640	NM_032816.2	272	gacttgggcggacacctgtgtcttctc	401658	-	see also 21464 line
48488	FLJ14640	NM_032816.2	250	cagccaattctggcagacaacattg	401657	-	see also 21464 line
48489	FLJ14641	NM_032817.1	763	ggcctgtctgtgtgtctatttat	401677	-	see also 21465 line
48490	FLJ14641	NM_032817.1	766	ctgtctgtctgtgtctatttattg	401678	-	see also 21465 line
48491	FLJ14642	NM_032818.1	148	ggctgtgtggccacagtacttttg	401680	-	see also 21466 line
48492	FLJ14668	NM_032822.1	450	aggctctcttattcaatttggaaaa	401685	-	see also 21467 line

図46 (続き)

1292

48493	FLJ14668	NM_032822.1	451	ggctcttatacaattggaaaaat	401686	-	see also 21467 line
48494	FLJ14681	NM_032824.1	1639	cgctgggtgacgatcatttgg	401720	-	see also 21468 line
48495	FLJ14681	NM_032824.1	1638	acgctgggtgacgatcattt	401719	-	see also 21468 line
48496	FLJ14681	NM_032824.1	1188	gtcaacccaagccttatgat	401706	-	see also 21468 line
48497	FLJ14721	NM_032829.1	1503	tcgcctaccgctacagataa	401747	-	see also 21469 line
48498	FLJ14721	NM_032829.1	1181	ttcacccgtagccagctacttgc	401744	-	see also 21469 line
48499	FLJ14721	NM_032829.1	1383	tgacgtactggagatctctc	401745	-	see also 21469 line
48500	FLJ14803	NM_032842.1	742	accgacctcgaacttggatac	401947	-	see also 9305 line
48501	FLJ14803	NM_032842.1	1218	cacaatctgaatctagacc	401965	-	see also 9305 line
48502	FLJ14816	NM_032845.1	85	gacgattccggtcttcttagc	401979	-	see also 21472 line
48503	FLJ14816	NM_032845.1	131	tcacctgggtctcttgatgagt	401980	-	see also 21472 line
48504	FLJ14816	NM_032845.1	412	cacgaattggctcagatttat	401983	-	see also 21472 line
48505	FLJ14825	NM_032847.1	220	ggcctacagacgacagagatc	401987	-	see also 21473 line
48506	FLJ14825	NM_032847.1	221	gcctacagacgacagagatca	401988	-	see also 21473 line
48507	FLJ14825	NM_032847.1	870	ctcagacaacatcgtttcttg	402000	-	see also 21473 line
48508	FLJ14827	NM_032848.1	778	agccacacccgctcttacttga	402002	-	see also 21474 line
48509	FLJ14827	NM_032848.1	998	cggcagactcccaagattatct	402006	-	see also 21474 line
48510	FLJ14834	NM_032849.2	716	aggacgtacgggtttctttaa	402013	-	see also 9311 line
48511	FLJ14834	NM_032849.2	737	aacacgagcaccaccaagataag	402015	-	see also 9311 line
48512	FLJ14871	NM_032854.1	479	gtcctattgcccctttacgatcc	402079	-	see also 21476 line
48513	FLJ14871	NM_032854.1	475	cggggtctatgcccttttacg	402078	-	see also 21476 line
48514	FLJ14888	NM_032856.1	84	cactcagctctggaatgattg	402082	-	see also 21477 line
48515	FLJ14888	NM_032856.1	41	tgcctgtgtaccagagattctat	402081	-	see also 21477 line
48516	FLJ14904	NM_032858.1	87	ggcagcgggaatgcttactatt	402096	-	see also 9318 line
48517	FLJ14904	NM_032858.1	89	cagccgggaatgcttactattt	402097	-	see also 9318 line
48518	FLJ14936	NM_032284.2	673	gtctccgaaaggctctaagaag	399347	-	-
48519	FLJ14936	NM_032284.2	675	ctccgaaaggctctaagaagc	399348	-	see also 48518 line
48520	FLJ14957	NM_032866.2	1574	ggcaccgtactcgtatgttaca	402217	-	see also 21478 line
48521	FLJ14957	NM_032866.2	1046	gacaaagctcaatcgtcatgaaa	402200	-	see also 21478 line
48522	FLJ14966	NM_032867.1	1599	ggacaaactcgtcgtattcttaga	402266	-	see also 21479 line
48523	FLJ14966	NM_032867.1	1568	caccgagctgatgcaagtgatg	402265	-	see also 21479 line
48524	FLJ14981	NM_032868.2	1332	cacctacctcgcacagcttaaga	402274	-	see also 21480 line
48525	FLJ14981	NM_032868.2	1337	acctcgcacaaagcttaagatccc	402275	-	see also 21480 line
48526	FLJ16030	NM_198494.1	786	ttcacagagcgccttatcatg	438578	-	see also 21481 line
48527	FLJ16030	NM_198494.1	1034	cacctacaaaggcgaacacatac	438582	-	see also 21481 line
48528	FLJ20003	NM_017615.1	338	tactgaatgccggtgacaaatta	359589	-	see also 21482 line
48529	FLJ20003	NM_017615.1	345	tgccggtgacaaattacacagag	359591	-	see also 21482 line
48530	FLJ20006	NM_017618.1	1051	cagcgactgaagggttaattaat	359619	-	see also 21483 line
48531	FLJ20006	NM_017618.1	997	ggcgaacgcgaccataacttgg	359615	-	see also 21483 line
48532	FLJ20010	NM_019021.1	497	tgcaacacgctttgatgcatta	374505	-	see also 21484 line
48533	FLJ20010	NM_019021.1	313	agccctgaagcgcattcatctagg	374504	-	see also 21484 line
48534	FLJ20032	NM_017628.2	2788	agcggagctcagacataatagt	359709	-	see also 21486 line
48535	FLJ20032	NM_017628.2	2843	atcgtagaataccctctatagt	359710	-	see also 21486 line
48536	FLJ20045	NM_017638.1	702	ctctccttatctgtgggaataag	359870	-	see also 7062 line

図46 (続き)

1293

48537	FLJ20045	NM_017638.1	318	caccgccttcctgtgtttgtgga	359864	-	see also 7082 line
48538	FLJ20045	NM_017638.1	270	tacctgttcagggaagtgtttt	359862	-	see also 7082 line
48539	FLJ20051	NM_019087.1	253	cagtgaagcccccataacgtcg	375119	-	see also 7698 line
48540	FLJ20054	NM_019049.1	200	ctgctgtacagcaagcagataaa	374740	-	see also 21489 line
48541	FLJ20054	NM_019049.1	1104	tggacigtctccatgaagtagtgt	374767	-	see also 21489 line
48542	FLJ20071	NM_017653.2	383	cagaatcggcgatctctcctaaa	360250	-	see also 7082 line
48543	FLJ20071	NM_017653.2	387	atcgcgcatcttctctaaaatga	360251	-	see also 7082 line
48544	FLJ20071	NM_017653.2	1718	gactaggacacagacacagttacc	360293	-	see also 7082 line
48545	FLJ20073	NM_017654.2	3364	cacaagacaccgcatgaacatg	360390	-	see also 21491 line
48546	FLJ20073	NM_017654.2	3806	aagtcacaaaagccgctatatac	360400	-	see also 21491 line
48547	FLJ20084	NM_017659.1	556	cocggatcgacccctttagg	360451	-	see also 7086 line
48548	FLJ20084	NM_017659.1	167	cggcgtctacacacattggagc	360447	-	see also 7086 line
48549	FLJ20097	NM_024553.2	674	aacagatgacgggtaag*gaag	387190	-	see also 8641 line
48550	FLJ20097	NM_024553.2	676	cagatgacacgttaagtgaatg	387191	-	see also 8641 line
48551	FLJ20136	NM_017684.2	2684	ttcggcatacgtgatacactacc	360666	-	see also 21494 line
48552	FLJ20136	NM_017684.2	2026	acctggacggcgattgataatg	360639	-	see also 21494 line
48553	FLJ20136	NM_017684.2	3083	ttcaaccttcacggaatagttac	360682	-	see also 21494 line
48554	FLJ20151	NM_017689.1	385	ttctcggatccgacactatcc	360830	-	see also 21495 line
48555	FLJ20151	NM_017689.1	33	ttggccttggtccaaaattgtca	360822	-	see also 21495 line
48556	FLJ20151	NM_017689.1	39	ttggtccaaaattgtcaatcaga	360823	-	see also 21495 line
48557	FLJ20152	NM_019000.2	675	caagggtgcgccaaagagttat	374112	-	see also 7652 line
48558	FLJ20152	NM_019000.2	719	cagaggtatctcgactgataat	374116	-	see also 7652 line
48559	FLJ20156	NM_017691.1	1705	agcccaactcgtctgtattgacc	360883	-	see also 7113 line
48560	FLJ20156	NM_017691.1	380	tgcattccccggttagactttt	360836	-	see also 7113 line
48561	FLJ20156	NM_017691.1	642	atctacagaagtaataatcgttg	360852	-	see also 7113 line
48562	FLJ20160	NM_017694.2	1612	tgcatacggctcgtctatttta	360998	-	see also 7116 line
48563	FLJ20174	NM_017699.1	846	ctcagtaacaaactcgtgtacc	361020	-	see also 21499 line
48564	FLJ20174	NM_017699.1	511	cgcgatttgcatactgtctaca	361012	-	see also 21499 line
48565	FLJ20174	NM_017699.1	2401	tagccgaacctatataaggata	361059	-	see also 21499 line
48566	FLJ20184	NM_017700.1	631	tggaaacccggcatgaagtaatt	361073	-	see also 21500 line
48567	FLJ20184	NM_017700.1	541	tggatgtggatagctgtttggc	361069	-	see also 21500 line
48568	FLJ20186	NM_017702.1	534	tccttgagccaccgttttacaaag	361076	-	see also 21501 line
48569	FLJ20195	NM_017706.3	1076	gactaccgtcggcgcaaaaaaaa	361100	-	see also 21502 line
48570	FLJ20195	NM_017706.3	1132	ttgagacacagatgacttctcg	361101	-	see also 21502 line
48571	FLJ20200	NM_017708.1	888	ggcaaccgtgcgggagaagtgtt	361103	-	see also 21503 line
48572	FLJ20200	NM_017708.1	887	cggcaccgtgcgggagaagtgtt	361102	-	see also 21503 line
48573	FLJ20202	NM_017709.2	710	gactcattcggcgtagtggga	361118	-	see also 21504 line
48574	FLJ20202	NM_017709.2	1212	tgcgtgtgctgcgggaacaaac	361122	-	see also 21504 line
48575	FLJ20202	NM_017709.2	427	tggccacgttttggtcaaaagaca	361113	-	see also 21504 line
48576	FLJ20211	NM_017713.1	569	ggcgtgctgtactagacttca	361129	-	see also 21505 line
48577	FLJ20211	NM_017713.1	608	caccgtgtgctgggaactaaagg	361131	-	see also 21505 line
48578	FLJ20232	NM_019008.3	1322	gtcagatgagcgtgacaaaca	374457	-	see also 21506 line
48579	FLJ20232	NM_019008.3	1115	ttcctgtgctgctgtagaatcc	374448	-	see also 21506 line
48580	FLJ20241	NM_017721.2	1214	cgcgtggcctaagagctttgagc	361150	-	see also 21507 line

図 46 (続き)

1294

48581	FLJ20241	NM_017721.2	1540	agccgtgagtgctgctgaattgc	361153	-	see also 21507 line
48582	FLJ20259	NM_017730.2	1457	taccagaatacggctcaactgt	361187	-	see also 7124 line
48583	FLJ20259	NM_017730.2	2236	cacgagatctcggctacttgaagg	361205	-	see also 7124 line
48584	FLJ20265	NM_017733.2	1540	ttagccgttcacgtcattgtgt	361238	-	see also 21509 line
48585	FLJ20265	NM_017733.2	1398	ccagtagcagacatattcgtatg	361237	-	see also 21509 line
48586	FLJ20272	NM_017735.2	1830	ttcgaaacgctcgttgaagataa	361358	-	see also 7125 line
48587	FLJ20272	NM_017735.2	2559	ctcaattacaggcctgtttatc	361378	-	see also 7125 line
48588	FLJ20272	NM_017735.2	1991	ttcttatatccgattaaaaaaa	361368	-	see also 7125 line
48589	FLJ20274	NM_017736.1	944	cttgaatctcggagacaaatcaga	361406	-	see also 21511 line
48590	FLJ20274	NM_017736.1	740	gtgtgacccctcaattcagaanaa	361397	-	see also 21511 line
48591	FLJ20275	NM_017737.1	991	tacgttccacgctacatcataga	361429	-	see also 7126 line
48592	FLJ20275	NM_017737.1	55	atggacgaacgaaggactattaa	361411	-	see also 7126 line
48593	FLJ20280	NM_017741.1	635	agctaagccgaacattgagtga	361435	-	see also 21513 line
48594	FLJ20280	NM_017741.1	752	ctcgtactgaacccatcaacact	361446	-	see also 21513 line
48595	FLJ20280	NM_017741.1	662	ctccatcactgtaataactaaaa	361437	-	see also 21513 line
48596	FLJ20287	NM_017746.1	1838	ctctacacagcttatcgatatca	361630	-	see also 7139 line
48597	FLJ20287	NM_017746.1	681	gcggtagcagcatattgcttaag	361596	-	see also 7139 line
48598	FLJ20291	NM_017748.3	724	cacagaagctcagtagttagatg	361685	-	see also 21515 line
48599	FLJ20291	NM_017748.3	1361	gggtgaagcgggaatatctactct	361668	-	see also 21515 line
48600	FLJ20297	NM_017751.1	630	ttcctcacgctcgtactcttcaga	361670	-	see also 21516 line
48601	FLJ20297	NM_017751.1	927	cacttctctggagatgatca	361674	-	see also 21516 line
48602	FLJ20297	NM_017751.1	2130	agcttgctcgcacactctttag	361675	-	see also 21516 line
48603	FLJ20300	NM_017753.1	284	cactaaacgaagttatccatca	361676	-	see also 7140 line
48604	FLJ20303	NM_017755.4	586	tgcggctcatcaataagattcta	361786	-	see also 7144 line
48605	FLJ20303	NM_017755.4	654	atgtatcatcgcacatgaatgt	361792	-	see also 7144 line
48606	FLJ20308	NM_017758.2	320	gacgtccgggacaaactataaagg	361890	-	see also 21519 line
48607	FLJ20308	NM_017758.2	1129	tagatgcaccccggttggaaca	361896	-	see also 21519 line
48608	FLJ20309	NM_017759.2	2950	aacatcgtactcttggtgataata	361949	-	see also 21520 line
48609	FLJ20309	NM_017759.2	1592	aagaatgcggcacaactgttag	361918	-	see also 21520 line
48610	FLJ20311	NM_017760.4	2108	atcgtgcaagatccctttatc	361993	-	see also 7147 line
48611	FLJ20311	NM_017760.4	672	ttggcgtatccatcaagctttat	361957	-	see also 7147 line
48612	FLJ20313	NM_017762.1	1211	tactcgtatgtagaataatga	362054	-	see also 21522 line
48613	FLJ20313	NM_017762.1	832	acgagggttacctgatatccact	362042	-	see also 21522 line
48614	FLJ20315	NM_017763.1	1665	ctccctaagcagtgactttgacc	362075	-	see also 21523 line
48615	FLJ20315	NM_017763.1	312	cagagtgatcccttgaataatgg	362072	-	see also 21523 line
48616	FLJ20320	NM_017765.1	612	gacgctgtactcttactacaagt	362084	-	see also 7148 line
48617	FLJ20320	NM_017765.1	604	gtgagctgacgctgactattta	362082	-	see also 7148 line
48618	FLJ20323	NM_019005.1	867	gtgtgaaggtagcccatatttc	374387	-	see also 7656 line
48619	FLJ20343	NM_017775.2	683	agcgagcgaagttagaattatg	362186	-	see also 21525 line
48620	FLJ20343	NM_017775.2	752	gtctgctcatcagactgataac	362193	-	see also 21525 line
48621	FLJ20343	NM_017775.2	746	ctcttgctcgtctcactcagact	362192	-	see also 21525 line
48622	FLJ20345	NM_017777.1	318	caggacaacccacgtcataaaca	362216	-	see also 21526 line
48623	FLJ20345	NM_017777.1	186	agccagcaggtgcttcattct	362212	-	see also 21526 line
48624	FLJ20356	NM_018986.2	483	accggaatggtgacgctttaag	374070	-	see also 21527 line

1295

図46 (続き)

48625	FLJ20356	NM_018986.2	429	ccgcgtgttgagggaattatca	374068	-	see also 21527 line
48626	FLJ20356	NM_018986.2	1167	gcocgtgtccgagtggaagt	374078	-	see also 21527 line
48627	FLJ20360	NM_017782.2	3673	tacgcaactctctatacaaaa	362324	-	see also 21528 line
48628	FLJ20360	NM_017782.2	4398	caccaatttcacgtcaactaa	362347	-	see also 21528 line
48629	FLJ20364	NM_017785.2	579	cgaggaactcgcgttaattct	362380	-	see also 21529 line
48630	FLJ20364	NM_017785.2	1342	gagccagcgggctctagatttg	362399	-	see also 21529 line
48631	FLJ20373	NM_017792.1	337	cactcaagctccgtaaggatat	362443	-	see also 21530 line
48632	FLJ20373	NM_017792.1	420	gtcgaattctgagtggaataaac	362445	-	see also 21530 line
48633	FLJ20397	NM_017802.2	1294	agctcgtggagcagtttgcagc	362630	-	see also 21531 line
48634	FLJ20397	NM_017802.2	750	gacgaagctcttccatttgc	362629	-	see also 21531 line
48635	FLJ20420	NM_017812.1	210	ggcattccggcttcggaaattgt	362656	-	see also 21532 line
48636	FLJ20420	NM_017812.1	267	togaagctcagaggtattctgg	362658	-	see also 21532 line
48637	FLJ20422	NM_017814.1	132	cggcagttgttccgatacaagc	362667	-	see also 21533 line
48638	FLJ20422	NM_017814.1	488	cagtgacacgctgtacttcagc	362670	-	see also 21533 line
48639	FLJ20432	NM_017819.1	1267	tgaattcgttcccaagagaaaa	362747	-	see also 21534 line
48640	FLJ20432	NM_017819.1	1253	ttggcaagagctctgcaattcg	362746	-	see also 21534 line
48641	FLJ20436	NM_017822.1	583	aagcgcgatacttactataatcg	362754	-	see also 21535 line
48642	FLJ20436	NM_017822.1	580	aagaagcgcgatacttactataa	362753	-	see also 21535 line
48643	FLJ20445	NM_017824.2	796	gtggcgaataactcgaataaac	362768	-	see also 21536 line
48644	FLJ20445	NM_017824.2	606	tgttgctctatctattggaca	362763	-	see also 21536 line
48645	FLJ20449	NM_017826.1	1238	ggcagacgtgcactacacatcc	362816	-	see also 21537 line
48646	FLJ20449	NM_017826.1	1025	tcgcctcaggaatgtctattgg	362808	-	see also 21537 line
48647	FLJ20449	NM_017826.1	788	gcggttatggccagattacaga	362805	-	see also 21537 line
48648	FLJ20452	NM_017828.2	381	gtctgcagctacgcataatag	362823	-	see also 21538 line
48649	FLJ20452	NM_017828.2	536	gtcctctcagcagacaaagtcc	362825	-	see also 21538 line
48650	FLJ20457	NM_017832.2	342	gccttcgctgtggatcgatact	362887	-	see also 21539 line
48651	FLJ20457	NM_017832.2	347	cgctcgtggatcgatactcaact	362889	-	see also 21539 line
48652	FLJ20457	NM_017832.2	422	tacagactctaacccgaatatgt	362898	-	see also 21539 line
48653	FLJ20454	NM_017834.1	504	tgtaccacgctagagttgaca	362939	-	see also 21540 line
48654	FLJ20484	NM_017834.1	641	cagcgaagtgtgttccaaact	362942	-	see also 21540 line
48655	FLJ20477	NM_017837.2	639	gaccttacgggggttactgagt	362949	-	see also 21541 line
48656	FLJ20477	NM_017837.2	682	ttcggtagcatcactcaattct	362951	-	see also 21541 line
48657	FLJ20487	NM_017841.1	330	accttatgaccgctgattaac	363007	-	see also 21541 line
48658	FLJ20487	NM_017841.1	344	ctgattaacgagcctagtaatga	363008	-	see also 21541 line
48659	FLJ20489	NM_017842.1	768	ggggcagcgttagaccctttica	363012	-	see also 21543 line
48660	FLJ20489	NM_017842.1	770	ggcagcgttttagacccttttcaaa	363013	-	see also 21543 line
48661	FLJ20502	NM_017845.2	403	gacagattgcgtcattacgaat	363033	-	see also 21544 line
48662	FLJ20502	NM_017845.2	522	gtccttggagcagcgaataaag	363035	-	see also 21544 line
48663	FLJ20507	NM_017849.1	680	caccgtcattggctttcttatt	363124	-	see also 21545 line
48664	FLJ20507	NM_017849.1	484	accggacacctgtgaagatttc	363120	-	see also 21545 line
48665	FLJ20507	NM_017849.1	485	cccgacacctgtgaagatttct	363121	-	see also 21545 line
48666	FLJ20508	NM_017850.1	378	ttcggccttccagatttaaaa	363129	-	see also 21546 line
48667	FLJ20508	NM_017850.1	500	agccatgtggcagaggtttca	363131	-	see also 21546 line
48668	FLJ20509	NM_017851.1	785	gacgagcgaatcaaacatagt	363147	-	see also 21547 line

1296

48669	FLJ20509	NM 017851.1	779	atcgacagcgcgcgagatcaaa	363146	-	see also 21547 line
48670	FLJ20513	NM 017855.2	187	aactagcagaactcgtatatca	363158	-	see also 21549 line
48671	FLJ20513	NM 017855.2	364	aaccacgacacaaccaatgttto	363162	-	see also 21549 line
48672	FLJ20514	NM 017856.1	468	ttcaatttcctatggtactaac	363166	-	-
48673	FLJ20516	NM 017858.1	452	ttgcacttgatctccctattta	363178	-	see also 7162 line
48674	FLJ20516	NM 017858.1	436	actgtttaaaacgaatctcgact	363177	-	see also 7162 line
48675	FLJ20516	NM 017858.1	257	ttcaagccttaaggcatgtattt	363171	-	see also 7162 line
48676	FLJ20519	NM 017860.3	347	tagccggctgcgcgccattaacg	363199	-	see also 21551 line
48677	FLJ20519	NM 017860.3	399	gtgattaatgcgcggaaaaggatg	363202	-	see also 21551 line
48678	FLJ20522	NM 017861.1	572	agccctcgatgtggtcaataacc	363218	-	see also 21552 line
48679	FLJ20522	NM 017861.1	616	accaagagttcccgattttgaaa	363219	-	see also 21552 line
48680	FLJ20530	NM 017864.1	602	tccgaccttaatagtagagtagc	363255	-	see also 7164 line
48681	FLJ20530	NM 017864.1	1577	atcgccacagacagattgaatgc	363283	-	see also 7164 line
48682	FLJ20531	NM 017865.2	1423	gtgagatattcggggtttacctgc	363296	-	see also 7167 line
48683	FLJ20531	NM 017865.2	1184	ctccaaccggcagtgatttgaatc	363294	-	see also 7167 line
48684	FLJ20533	NM 017866.3	275	tcggcgcgagatccctgtttatt	363300	-	see also 21554 line
48685	FLJ20533	NM 017866.3	592	aggcgacaacacacactataaa	363313	-	see also 21554 line
48686	FLJ20534	NM 017867.1	696	ggcttggtgttccagtagataaa	363319	-	see also 21555 line
48687	FLJ20542	NM 017871.3	582	atgacccacagaccgcacactagg	363333	-	see also 21556 line
48688	FLJ20542	NM 017871.3	107	ctccattgcgggcaagaagtcca	363328	-	see also 21556 line
48689	FLJ20546	NM 017872.2	10	ggcgccgttaagttaagtgtca	363341	-	see also 21557 line
48690	FLJ20546	NM 017872.2	338	agcggaaaaacttggtttaaa	363344	-	see also 21557 line
48691	FLJ20555	NM 017877.2	141	cggcaaaatggcgcgcacaatttc	363358	-	see also 21558 line
48692	FLJ20555	NM 017877.2	432	gggggcagtgatcatatttact	363362	-	see also 21558 line
48693	FLJ20580	NM 017887.1	159	ttcggacaagtgccagtcacatcc	363373	-	see also 21559 line
48694	FLJ20580	NM 017887.1	448	gactggacttgactatgatgaaaa	363378	-	see also 21559 line
48695	FLJ20605	NM 017898.3	723	agcgtatagattggttcaatttg	363704	-	see also 21560 line
48696	FLJ20605	NM 017898.3	997	atggcatgccccagcaggtgtattt	363714	-	see also 21560 line
48697	FLJ20618	NM 017903.2	813	tggattttgcccgagatgatto	363752	-	see also 21561 line
48698	FLJ20618	NM 017903.2	703	atgctccatccaaagtgaaattat	363750	-	see also 21561 line
48699	FLJ20619	NM 017904.1	501	ggctgtggccgcagcatctagacg	363754	-	-
48700	FLJ20619	NM 017904.1	93	atgcgctggcgaataattctctac	363756	-	see also 48699 line
48701	FLJ20619	NM 017904.1	613	agagagaaaagggcgtgtatttc	363755	-	see also 48699 line
48702	FLJ20625	NM 017907.1	446	gtctcgggtagctgctttatgc	363835	-	see also 21562 line
48703	FLJ20625	NM 017907.1	134	ccccctaccaaagctctcaatgg	363830	-	see also 21562 line
48704	FLJ20635	NM 017911.1	1098	tgcacgggaatcaaatgtgtatcc	363888	-	see also 21563 line
48705	FLJ20635	NM 017911.1	793	ggcaagaggggcacatgaagtacg	363880	-	see also 21563 line
48706	FLJ20641	NM 017915.1	705	gtggccactgtttttattagaac	363904	-	see also 21564 line
48707	FLJ20641	NM 017915.1	1742	tggcccaaggcacaagttaactcagt	363931	-	see also 21564 line
48708	FLJ20647	NM 017918.3	884	cactgcacagagattatacttact	363944	-	see also 21565 line
48709	FLJ20647	NM 017918.3	882	gtcactcgcacaggattatacttia	363943	-	see also 21565 line
48710	FLJ20668	NM 017923.1	604	tactgcagtgtaaaagtctatgt	364046	-	see also 21566 line
48711	FLJ20668	NM 017923.1	69	aacctatgttaaccttaaccaag	364033	-	see also 21566 line
48712	FLJ20694	NM 017928.1	392	gcctcacctctgcaaatcatatcc	364266	-	see also 21567 line

図46 (続き)

1297

48713	FLJ20694	NM_017928.1	480	tggcaagaacacactgtttgtgc	364267	-	see also 21587 line
48714	FLJ20699	NM_017931.1	403	ttccgaagcctgtgaactatgg	364281	-	see also 21588 line
48715	FLJ20699	NM_017931.1	772	ctgatatgttggcttgttcataac	364289	-	see also 21588 line
48716	FLJ20701	NM_017933.3	598	cagtggcgcgaaggtaccacacc	364296	-	see also 21589 line
48717	FLJ20701	NM_017933.3	372	tagaagagtcgagagacatgtot	364292	-	see also 21589 line
48718	FLJ20716	NM_017938.2	494	tacgtacaccgtgtccattatgt	364358	-	see also 7179 line
48719	FLJ20716	NM_017938.2	334	tggatcgttcttggaaatcattg	364352	-	see also 7179 line
48720	FLJ20718	NM_017939.1	1818	ggcgaagagcctcgtattcaaat	364414	-	see also 21571 line
48721	FLJ20718	NM_017939.1	1959	ttggcaagattatttgcattatca	364421	-	see also 21571 line
48722	FLJ20729	NM_017953.2	832	cacgttgatgcgattatcctgc	364736	-	see also 21572 line
48723	FLJ20729	NM_017953.2	952	atctcctaagtgattatcgattt	364737	-	see also 21572 line
48724	FLJ20758	NM_017952.4	1539	ggccaatcgctagaaagtgcctc	364720	-	see also 21573 line
48725	FLJ20758	NM_017952.4	434	aacctatataccctgttgaatg	364677	-	see also 21573 line
48726	FLJ20758	NM_017952.4	1544	atcgctagaagtgattcctctaaa	364721	-	see also 21573 line
48727	FLJ20772	NM_017956.1	1396	tcccatgttgatcacatagctcc	364867	-	see also 21574 line
48728	FLJ20772	NM_017956.1	196	taccagcgtacacagagaatc	364863	-	see also 21574 line
48729	FLJ20811	NM_019007.2	989	agcaagccgagtaaatgttga	374437	-	see also 21575 line
48730	FLJ20811	NM_019007.2	986	tgcagcagcggagtaaatgtt	374436	-	see also 21575 line
48731	FLJ20859	NM_022734.1	850	acgcactgagtgattgtcaaac	383771	-	see also 21576 line
48732	FLJ20859	NM_022734.1	849	gaccgactgaagtagttcaaac	383770	-	see also 21576 line
48733	FLJ20859	NM_022734.1	423	gtgtacacgactacgtataaac	383761	-	see also 21576 line
48734	FLJ20896	NM_024605.2	544	ctcgttgtaatgogattcatttc	387806	-	see also 8685 line
48735	FLJ20898	NM_024600.1	881	gtccggagcaccgtcaactgc	387738	-	see also 21578 line
48736	FLJ20898	NM_024600.1	1077	ctcgtgactttctacagaaattg	387740	-	see also 21578 line
48737	FLJ20972	NM_025030.1	445	tccatgttagagcctgaattatc	393164	-	see also 21579 line
48738	FLJ20972	NM_025030.1	70	aagtttaggggtgctcctgaaga	393160	-	see also 21579 line
48739	FLJ20989	NM_023080.1	477	tccgaacccctgogcagcaaaaga	385259	-	see also 21580 line
48740	FLJ20989	NM_023080.1	662	gtctgcagggcctgctctatag	385261	-	see also 21580 line
48741	FLJ20989	NM_023080.1	241	aggcggcacagcgtcgaaaaaac	385257	-	see also 21580 line
48742	FLJ21047	NM_024569.2	545	tggcaaacaggctgctcttaaaa	387332	-	signal transduction, kinase related
48743	FLJ21047	NM_024569.2	478	ttcctgtgtgcagataaogaact	387331	-	see also 48742 line
48744	FLJ21047	NM_024569.2	546	ggcaaacaggctgctcttaaaa	387333	-	see also 48742 line
48745	FLJ21062	NM_024788.2	2715	agcactcctgcccagatttagtg	390724	-	see also 21581 line
48746	FLJ21062	NM_024788.2	2147	cccatctatgtcggttattgattg	390708	-	see also 21581 line
48747	FLJ21069	NM_024692.3	1085	ggagactcgtgtgttattgcagg	389343	-	see also 8697 line
48748	FLJ21069	NM_024692.3	2297	gtgaactatcgagggaataatgg	389378	-	see also 8697 line
48749	FLJ21103	NM_024566.1	421	ctctcctgtaccagtaattgttc	387229	-	see also 21584 line
48750	FLJ21103	NM_024566.1	878	gaggctgtcaagcaataatctga	387239	-	see also 21584 line
48751	FLJ21106	NM_025097.1	1135	aagtgcaacccctcagtcatacc	393595	-	see also 8860 line
48752	FLJ21106	NM_025097.1	935	ggcaagctaaactaaccttaact	393589	-	see also 8860 line
48753	FLJ21125	NM_024627.4	688	ggcaactgtgtggcgttaaacctgc	388235	-	see also 21586 line
48754	FLJ21125	NM_024627.4	966	ggccctgctgtacgattacagagc	388239	-	see also 21586 line
48755	FLJ21127	NM_024549.3	1281	gggtccggagcccccagattattt	387169	-	see also 21587 line

1298

図46 (続き)

48756	FLJ21127	NM_024549.3	1279	gggggtccggaccacagttatt	387167	-	see also 21587 line
48757	FLJ21144	NM_022774.1	372	aaccataagcttacaacagg	384107	-	see also 21588 line
48758	FLJ21144	NM_022774.1	1057	ccagttatgatatttgaaga	384118	-	see also 21588 line
48759	FLJ21148	NM_024860.1	712	aagccaatctagaactctgc	391517	-	see also 21589 line
48760	FLJ21148	NM_024860.1	703	gccaatcaaacgccaatctaga	391515	-	see also 21589 line
48761	FLJ21159	NM_024826.1	909	aacgcgaatgcatacaattag	391135	-	see also 21590 line
48762	FLJ21159	NM_024826.1	552	atcaaacggaacatacaaacag	391130	-	see also 21590 line
48763	FLJ21168	NM_025073.1	579	tagccaattagagcttgaaat	393488	-	see also 21591 line
48764	FLJ21168	NM_025073.1	580	agccaattagagcttgaaata	393489	-	see also 21591 line
48765	FLJ21174	NM_024863.3	625	cgcgcaggtcgtgaagacagg	391576	-	see also 21592 line
48766	FLJ21174	NM_024863.3	623	tcgccgaggtcgtgaagaca	391575	-	see also 21592 line
48767	FLJ21195	NM_022489.2	631	ccacccctccgactcaagaaaa	393037	-	-
48768	FLJ21195	NM_022489.2	633	caccttcgactcaagaaaatc	393038	-	see also 48767 line
48769	FLJ21308	NM_024615.2	1338	aagcaggttactactagtaac	388006	-	see also 8668 line
48770	FLJ21308	NM_024615.2	1255	aagtcgcatagactattgactcg	387999	-	see also 8668 line
48771	FLJ21415	NM_024738.1	507	ctgtgcagcgccctatgact	389766	-	see also 21594 line
48772	FLJ21415	NM_024738.1	618	ggcagtcgaagatacacttgagt	389767	-	see also 21594 line
48773	FLJ21458	NM_024850.1	578	tcacatcagggatgttgatag	391429	-	-
48774	FLJ21458	NM_024850.1	578	cagggatgttgatagagaca	391430	-	see also 48773 line
48775	FLJ21458	NM_024850.1	483	ctctatgggtcagggatagttc	391428	-	see also 48773 line
48776	FLJ21477	NM_025153.1	87	agcgagtagtggtctctaacttg	394097	-	see also 21595 line
48777	FLJ21477	NM_025153.1	363	aagacctccggaggacaaatcg	394103	-	see also 21595 line
48778	FLJ21511	NM_025087.1	257	ggacccgagatctattacttc	393517	-	see also 8859 line
48779	FLJ21511	NM_025087.1	253	acctggaccgatgatattac	393515	-	see also 8859 line
48780	FLJ21603	NM_024762.1	699	tgcagtgaagtcagttctcattaa	390180	-	see also 21597 line
48781	FLJ21603	NM_024762.1	367	gtgaggtttgtcagaaattttt	390178	-	see also 21597 line
48782	FLJ21610	NM_022751.1	2507	gtcaactacgggttoattggtttg	383949	-	see also 21598 line
48783	FLJ21610	NM_022751.1	297	gagattccggtacattatgcagg	383904	-	see also 21598 line
48784	FLJ21657	NM_022483.2	959	ttcaaaaacatggagttcgattg	383272	-	see also 21599 line
48785	FLJ21657	NM_022483.2	907	ctcacatctgtcattcgttatg	383270	-	see also 21599 line
48786	FLJ21742	NM_032207.1	77	gccgtcccatcggtgagttttt	398668	-	see also 9098 line
48787	FLJ21742	NM_032207.1	76	agccgtcccatcggtgagtttt	398667	-	see also 9098 line
48788	FLJ21749	NM_025124.1	431	ctggaccacaacacctttgatcc	393817	-	see also 21601 line
48789	FLJ21749	NM_025124.1	604	gagttctacggtgattctcatc	393819	-	see also 21601 line
48790	FLJ21777	NM_032209.1	1061	cagccctcgacccctacgttaaat	398702	-	see also 21602 line
48791	FLJ21777	NM_032209.1	806	ctccgcatccggacattacatgc	398701	-	see also 21602 line
48792	FLJ21816	NM_024675.2	968	tactactcagcaacataaaaaa	388945	-	see also 21603 line
48793	FLJ21816	NM_024675.2	3641	gtcgggtacagactctcatttgc	389003	-	see also 21603 line
48794	FLJ21816	NM_024675.2	2276	tacggttgcctgatgataatg	388976	-	see also 21603 line
48795	FLJ21868	NM_022769.1	456	ccttagcaacccatctcttcc	384015	-	see also 21604 line
48796	FLJ21868	NM_022769.1	290	atgacccacctgggtataagaag	384011	-	see also 21604 line
48797	FLJ21901	NM_024622.2	2016	tgcgtccatcagcgtattgaac	388183	-	see also 21606 line
48798	FLJ21901	NM_024622.2	2071	aacttgggttcaacatcttaatt	388187	-	see also 21606 line
48799	FLJ21901	NM_024622.2	1595	tcccgaaatgaagccgtttacc	388173	-	see also 21606 line

図46 (続き)

1299

48800	FLJ21908	NM_024604.1	1314	caccgcatcctggtatcaactaaa	387779	-	see also 8664 line
48801	FLJ21908	NM_024604.1	1315	aocgcatcctggtatcaactaaa	387780	-	see also 8664 line
48802	FLJ21919	NM_023015.3	1298	cgggatactctgtaagactactoa	384996	-	see also 8538 line
48803	FLJ21919	NM_023015.3	1895	cagctgcggcagggtgtcttttc	385015	-	see also 8538 line
48804	FLJ21940	NM_022828.2	3052	gacattcgggagcgttaacacaaa	384425	-	see also 21609 line
48805	FLJ21940	NM_022828.2	3048	tgttgacattcgggacggttaaca	384423	-	see also 21609 line
48806	FLJ21941	NM_025040.2	851	aacgtacacatactaaactaga	393177	-	see also 21610 line
48807	FLJ21941	NM_025040.2	1567	gtcaaacgaactctcgttatata	393191	-	see also 21610 line
48808	FLJ21941	NM_025040.2	845	agcatgaacgtacatactataaa	393175	-	see also 21610 line
48809	FLJ21945	NM_025203.1	137	gcctggacgcgtggaatcaagt	394359	-	see also 21611 line
48810	FLJ21945	NM_025203.1	2029	gggctttatcccgtaaaccttca	394404	-	see also 21611 line
48811	FLJ21986	NM_024913.3	686	atggccgaaggagccatactctac	392011	-	see also 21612 line
48812	FLJ21986	NM_024913.3	422	tcccttgcgtcggcgatttgc	392009	-	see also 21612 line
48813	FLJ22021	NM_024535.1	1319	ggcgcaagcgagggtttctcttc	386894	-	see also 21613 line
48814	FLJ22021	NM_024535.1	345	ctgacagagcaggtataaactctgg	386891	-	see also 21613 line
48815	FLJ22054	NM_018527.2	356	ctgtcgaaccacaaattgtctga	372117	-	see also 7506 line
48816	FLJ22054	NM_018527.2	509	ctcttcgagctgtctgtataaaa	372121	-	see also 7506 line
48817	FLJ22104	NM_022918.2	975	ctgcgctggatcagaacttaga	384916	-	see also 8536 line
48818	FLJ22104	NM_022918.2	336	ggcgcctctgcgagcatcttatgt	384898	-	see also 8536 line
48819	FLJ22160	NM_024585.2	356	ggcgcgtgtcacggaattccaagg	387601	-	see also 21616 line
48820	FLJ22169	NM_024085.2	530	ctggatccaccggttatacaagt	385789	-	see also 21617 line
48821	FLJ22169	NM_024085.2	977	gtggattggcatgctgaacttcc	385797	-	see also 21617 line
48822	FLJ22170	NM_025099.1	1697	gtcgaagatgctccattagaac	393635	-	see also 21618 line
48823	FLJ22170	NM_025099.1	419	ggccctcatgaagcgtaattttt	393609	-	see also 21618 line
48824	FLJ22170	NM_025099.1	418	aggccctcatgaagcgtaatttt	393608	-	see also 21618 line
48825	FLJ22202	NM_024883.1	224	tggaggtatcgtggattgttcg	391651	-	see also 21620 line
48826	FLJ22202	NM_024883.1	284	ctctttcttgaaatttcgagg	391652	-	see also 21620 line
48827	FLJ22246	NM_025232.2	605	cagagatcgttacagacattttt	394489	-	see also 21621 line
48828	FLJ22246	NM_025232.2	607	gagatcgttacagacattttat	394490	-	see also 21621 line
48829	FLJ22269	NM_032219.2	1212	ggccgaggaatactatcatcgc	398709	-	see also 21622 line
48830	FLJ22269	NM_032219.2	621	gggtgagagacattcgttaatgc	398705	-	see also 21622 line
48831	FLJ22301	NM_024836.1	814	ggcgccttcgttcctagatgc	391349	-	see also 21623 line
48832	FLJ22313	NM_022373.3	730	aacgcatactatcaacggttacc	382755	-	see also 8352 line
48833	FLJ22313	NM_022373.3	1402	gggaggtccagtaactaaatgaag	382776	-	see also 8352 line
48834	FLJ22318	NM_022762.3	1132	gacgaggtaccgattgagattga	384000	-	see also 8457 line
48835	FLJ22318	NM_022762.3	1130	aggacgagttaccgattgagatt	383999	-	see also 8457 line
48836	FLJ22341	NM_024599.2	1255	ctccccgagtggtgcaatcc	387730	-	see also 21625 line
48837	FLJ22341	NM_024599.2	2801	agccgcttctcgcgagaagtatga	387736	-	see also 21625 line
48838	FLJ22344	NM_024717.2	1331	aacgatagactgtaacacatac	389525	-	see also 21626 line
48839	FLJ22344	NM_024717.2	2038	ctgcattccgctgagatacatg	389546	-	see also 21626 line
48840	FLJ22349	NM_024821.1	470	ccggaggattgtcacattact	391110	-	-
48841	FLJ22349	NM_024821.1	654	atcgaccacacaggttattcc	391112	-	see also 48840 line
48842	FLJ22349	NM_024821.1	523	tccgctggggatcagttctgc	391111	-	see also 48840 line
48843	FLJ22353	NM_024867.1	672	ctcgaaggctgacgaagtatgc	387608	-	see also 21627 line

図46 (続き)

1300

48844	FLJ22353	NM_024587.1	791	tcgtgactaccctactactac	387610	-	see also 21627 line
48845	FLJ22374	NM_032222.1	1055	cttactctgctgtgtaattc	388722	-	see also 21628 line
48846	FLJ22374	NM_032222.1	1130	ccgcacactcaggaaaaatca	388724	-	see also 21628 line
48847	FLJ22390	NM_022746.2	670	ggcgtgctgagcgatcgaact	383880	-	see also 21631 line
48848	FLJ22390	NM_022746.2	620	aaggacacagattcttactaaga	383877	-	see also 21631 line
48849	FLJ22457	NM_024901.3	1453	accgcgatttgaagaagttt	391874	-	see also 21632 line
48850	FLJ22457	NM_024901.3	1448	gaaccaaccgcgatttgaaga	391873	-	see also 21632 line
48851	FLJ22471	NM_025140.1	783	cccttgaccocgggaattgaag	393950	-	see also 21633 line
48852	FLJ22471	NM_025140.1	781	gcctctgcacccgggaattga	393949	-	see also 21633 line
48853	FLJ22471	NM_025140.1	784	ccctgcacccgggaattgaaga	393951	-	see also 21633 line
48854	FLJ22490	NM_024790.2	734	tgggcttaagtgagacatatc	390743	-	see also 21634 line
48855	FLJ22490	NM_024790.2	1030	taggggatgagggatcaaacctc	390750	-	see also 21634 line
48856	FLJ22531	NM_024650.2	1095	ggagcagccggatgactacttc	388528	-	see also 21635 line
48857	FLJ22531	NM_024650.2	1716	ctgaggagcagcactgatacaagc	388540	-	see also 21635 line
48858	FLJ22555	NM_024520.1	680	aactgggttaggactcgaattaa	386610	-	see also 21636 line
48859	FLJ22555	NM_024520.1	1167	cacggattgaacactcaaaatta	386628	-	see also 21636 line
48860	FLJ22557	NM_024713.1	806	ctggcttcaagcagtcataaaa	389501	-	see also 21637 line
48861	FLJ22557	NM_024713.1	834	tgtgaagactatcaccaaaac	389503	-	see also 21637 line
48862	FLJ22573	NM_024660.1	311	cccggttccgaagtgtttctt	388703	-	see also 21638 line
48863	FLJ22573	NM_024660.1	268	cgggaaaaactgggactcaatga	388701	-	see also 21638 line
48864	FLJ22609	NM_022072.2	763	atgacgaagctgtgttttct	382151	-	see also 8265 line
48865	FLJ22609	NM_022072.2	800	ggcactctgtaggtaagtcaaa	382152	-	see also 8265 line
48866	FLJ22624	NM_024808.2	1269	cacctacggcagtttagtaag	390865	-	see also 8748 line
48867	FLJ22624	NM_024808.2	1267	tacactacggcagtttagtaag	390864	-	see also 8748 line
48868	FLJ22635	NM_025092.1	728	ggcctgtagccagctttagtgc	393569	-	see also 21641 line
48869	FLJ22635	NM_025092.1	1007	gggaggaacttttcagatgttag	393570	-	see also 21641 line
48870	FLJ22639	NM_024796.1	509	actgcccgatcctgtacaacc	390765	-	-
48871	FLJ22639	NM_024796.1	508	gacctgccgatcctgtacaac	390764	-	see also 48870 line
48872	FLJ22649	NM_021928.1	242	ctcgcggatcatgctaaaaatg	381273	-	see also 21642 line
48873	FLJ22649	NM_021928.1	551	gtcttgaaagctgtaccacaaatg	381276	-	see also 21642 line
48874	FLJ22662	NM_024829.1	601	gacattgtccgctcttataag	391186	-	see also 21643 line
48875	FLJ22662	NM_024829.1	117	ggcgcctatggcttttacaataa	391169	-	see also 21643 line
48876	FLJ22679	NM_032227.1	721	atgagcatcctcccttgaatt	398734	-	see also 9124 line
48877	FLJ22684	NM_025048.1	269	atctaggccagctgtaagaatat	393241	-	see also 21644 line
48878	FLJ22684	NM_025048.1	530	ggagactcccaagctgtgaatgt	393248	-	see also 21644 line
48879	FLJ22688	NM_025129.3	482	aggactgaggccagttatgac	393826	-	see also 21645 line
48880	FLJ22709	NM_024578.1	440	gcccgaactgagcttaagtaacc	387439	-	see also 21647 line
48881	FLJ22709	NM_024578.1	439	tggccgaactgagcttaagtaac	387438	-	see also 21647 line
48882	FLJ22729	NM_024683.1	904	ttcttctgattctactgaag	389143	-	see also 21648 line
48883	FLJ22729	NM_024683.1	813	gtgtcgtgagcgaatgaataatgc	389140	-	see also 21648 line
48884	FLJ22746	NM_024785.2	646	ggagctgtactgcagttttgata	390657	-	see also 21649 line
48885	FLJ22746	NM_024785.2	647	acgctgtactgcagttttgataa	390658	-	see also 21649 line
48886	FLJ22746	NM_024785.2	929	gactacgatggcaacaagattct	390662	-	see also 21649 line
48887	FLJ22757	NM_024898.1	1825	gaccgagccagagtttagactgc	391780	-	see also 21650 line

図46 (続き)

1301

48888	FLJ22757	NM_024898.1	1898	atggcaaccagacgataagaac	391782	-	see also 21650 line
48889	FLJ22789	NM_032230.1	349	ctggctgcgaataactattctgt	398863	-	see also 21651 line
48890	FLJ22789	NM_032230.1	126	tgcacataccctgtgattttctaca	398858	-	see also 21651 line
48891	FLJ22794	NM_022074.2	846	ggcgcaaacctctgtttatgc	382183	-	see also 21652 line
48892	FLJ22794	NM_022074.2	1250	ttcgattaaagtagtgaacttc	382189	-	see also 21652 line
48893	FLJ22833	NM_022837.1	486	agggtcaacgcccacttatttt	384527	-	see also 8490 line
48894	FLJ22833	NM_022837.1	568	taggacgggtgaccacaaacaaa	384533	-	see also 8490 line
48895	FLJ22833	NM_022837.1	801	gcccgaatgcgagattccataca	384538	-	see also 8490 line
48896	FLJ22875	NM_032231.3	577	ccccaaatcagggaatttgg	398923	-	see also 9127 line
48897	FLJ22875	NM_032231.3	383	atcagggttcacgcaacagtaac	398915	-	see also 9127 line
48898	FLJ22875	NM_032231.3	453	ttcagcgtatgttaccatttaaa	398919	-	see also 9127 line
48899	FLJ22938	NM_024676.2	1549	ctcgtgtggtccgcgaactaca	389011	-	see also 21655 line
48900	FLJ22938	NM_024676.2	1551	cgtgtgtccgcgaactacacg	389012	-	see also 21655 line
48901	FLJ22938	NM_024676.2	1209	ccacgcccaggctgagtgaggt	389010	-	see also 21655 line
48902	FLJ22944	NM_025145.3	1118	aagttacatgatcgaggatttc	394007	-	see also 21656 line
48903	FLJ22944	NM_025145.3	873	ttgcttcaaccgactatgcattg	393995	-	see also 21656 line
48904	FLJ22944	NM_025145.3	759	cccagtggtgcggaagatct	393991	-	see also 21656 line
48905	FLJ22965	NM_022101.2	120	agccctccatgtttactactgt	382287	-	see also 21657 line
48906	FLJ22965	NM_022101.2	85	cactcgggacccggagggaatag	382286	-	see also 21657 line
48907	FLJ23018	NM_024810.1	831	tgcagcggactaacagctatta	390941	-	see also 21658 line
48908	FLJ23018	NM_024810.1	835	ggggctaataagctattagtag	390943	-	see also 21658 line
48909	FLJ23047	NM_024548.2	315	agggtctaaaggaaactagtacac	387083	-	see also 8640 line
48910	FLJ23047	NM_024548.2	1768	gccaaagatgtggttaacgaat	387122	-	see also 8640 line
48911	FLJ23056	NM_024582.1	431	tccagtgggactttctattgaag	387568	-	see also 21660 line
48912	FLJ23056	NM_024582.1	601	ctgatagtgactcccatgaatct	387570	-	see also 21660 line
48913	FLJ23058	NM_024896.1	399	tccaacctatctgattttctgt	389383	-	see also 21661 line
48914	FLJ23058	NM_024896.1	564	gtcctaacttctcgaagtagt	389384	-	see also 21661 line
48915	FLJ23059	NM_032234.2	1356	gacgtgaaggcatctaatctact	399002	-	see also 21662 line
48916	FLJ23059	NM_032234.2	1319	cacggactgtagtaataagcttg	398999	-	see also 21662 line
48917	FLJ23091	NM_024911.3	1307	cacggaatcccttctacagtatct	392003	-	see also 8804 line
48918	FLJ23091	NM_024911.3	380	tgcgcgtaagaacacatcacaaaga	391980	-	see also 8804 line
48919	FLJ23091	NM_024911.3	786	gggtctgtggcccaatggttta	391993	-	see also 8804 line
48920	FLJ23129	NM_024763.2	620	aacgggaaagattgactagtttc	390197	-	see also 21664 line
48921	FLJ23129	NM_024763.2	840	cagatttagcaatgacctatag	390203	-	see also 21664 line
48922	FLJ23151	NM_024772.2	2613	gtccatgatcgtacattactatc	390431	-	see also 21665 line
48923	FLJ23151	NM_024772.2	2699	tacaagtttcgcgcatgaattga	390434	-	see also 21665 line
48924	FLJ23151	NM_024772.2	2609	gacagtcacatgctgacattac	390430	-	see also 21665 line
48925	FLJ23186	NM_024616.1	600	ttccgtgatcagaatactctgg	388056	-	see also 21666 line
48926	FLJ23186	NM_024616.1	594	cagatttcggtgacgaatat	388055	-	see also 21666 line
48927	FLJ23191	NM_024574.2	1387	aacatgagcaccgcttatttagg	387416	-	see also 21667 line
48928	FLJ23191	NM_024574.2	1925	gtctaggaaccagataaaggag	387430	-	see also 21667 line
48929	FLJ23191	NM_024574.2	1337	aaccgacacgactactcttt	387413	-	see also 21667 line
48930	FLJ23221	NM_024579.1	348	tccagtttgcgaagctctattcc	387454	-	see also 21668 line
48931	FLJ23221	NM_024579.1	117	caggtggtctattattacagt	387442	-	see also 21668 line

図46 (続き)

1302

48932	FLJ23231	NM_025079.1	1522	cgaggctacagtcctctgagatct	393509	-	see also 21669 line
48933	FLJ23231	NM_025079.1	280	tcgggaagctggagctattcatoc	393507	-	see also 21669 line
48934	FLJ23235	NM_024943.1	670	atggaatacccgatgatttat	392404	-	see also 21670 line
48935	FLJ23235	NM_024943.1	667	atcatgggaatacccgatgattg	392403	-	see also 21670 line
48936	FLJ23259	NM_024727.1	1401	agctaatacagctgagatattago	389718	-	see also 21671 line
48937	FLJ23259	NM_024727.1	869	cagttggctgctgaagcatct	389705	-	see also 21671 line
48938	FLJ23263	NM_025115.1	861	tggcaggagcccggttatatttt	393777	-	see also 8865 line
48939	FLJ23263	NM_025115.1	858	caactggcaggaccggttttat	393776	-	see also 8865 line
48940	FLJ23311	NM_024680.2	981	acgtgcagcatttaccatctcg	389062	-	see also 21674 line
48941	FLJ23311	NM_024680.2	984	tgaagcatttaacatattctgga	389063	-	see also 21674 line
48942	FLJ23342	NM_024631.1	1267	tagaaccaccggaattatctat	388314	-	see also 8673 line
48943	FLJ23342	NM_024631.1	51	cccgccaactcgccgctaaaaat	388292	-	see also 8673 line
48944	FLJ23375	NM_024956.2	947	gtcggagcaaccatacaatttgg	392710	-	see also 8825 line
48945	FLJ23375	NM_024956.2	1562	tcggtactgacacatcatcatg	392731	-	see also 8825 line
48946	FLJ23403	NM_022068.1	827	gacacccgggtgctatgcaatttt	382034	-	see also 8262 line
48947	FLJ23403	NM_022068.1	134	gcggtgactgacgtgtatgact	382022	-	see also 8262 line
48948	FLJ23451	NM_024766.1	829	caagccgaggggaatactttaaac	390308	-	see also 21677 line
48949	FLJ23451	NM_024766.1	666	tgcgtttacagcagggataatga	390300	-	see also 21677 line
48950	FLJ23467	NM_024575.1	526	cgcatccgcacagctgttgaatga	387436	-	see also 21678 line
48951	FLJ23471	NM_024723.1	518	tcgcccctcgtgtgacaaatagc	389560	-	see also 21679 line
48952	FLJ23471	NM_024723.1	194	aggactacogagacgtgaatatac	389558	-	see also 21679 line
48953	FLJ23476	NM_024640.2	780	agccatctcccaacagagagtagc	388429	-	see also 21680 line
48954	FLJ23476	NM_024640.2	635	ggcctcagttcctctgtgtatt	388427	-	see also 21680 line
48955	FLJ23514	NM_021827.1	702	ctcagtcctgctgcttaagtctct	381195	-	see also 21681 line
48956	FLJ23514	NM_021827.1	1082	agccatctgctgcttaagtctct	381204	-	see also 21681 line
48957	FLJ23518	NM_024725.2	793	cagcgatctcctagttgataaaag	389595	-	see also 21682 line
48958	FLJ23518	NM_024725.2	511	tggcaacgggttcaacatgaag	389588	-	see also 21682 line
48959	FLJ23550	NM_025063.1	1360	ccagctcttgacgactcttattg	393432	-	see also 21683 line
48960	FLJ23550	NM_025063.1	729	aagcctacaacgggtataaagtca	393415	-	see also 21683 line
48961	FLJ23560	NM_024685.2	1211	atgttcatctagctgtgataagc	389178	-	see also 21684 line
48962	FLJ23560	NM_024685.2	829	ggatgcgaatgtgtgataaac	389159	-	see also 21684 line
48963	FLJ23584	NM_024588.2	462	accctgcaggatcagatcagagt	387613	-	see also 21685 line
48964	FLJ23584	NM_024588.2	662	ccgggaagctgccatcattctag	387614	-	see also 21685 line
48965	FLJ23594	NM_024781.1	748	aacaaccggagtggaatcaaatga	390635	-	see also 21686 line
48966	FLJ23594	NM_024781.1	920	ctgaactcagcacttgcaaac	390636	-	see also 21686 line
48967	FLJ23594	NM_024781.1	691	gcctactataaactaaacagaca	390633	-	see also 21686 line
48968	FLJ23654	NM_152550.1	975	caccgaagacaccccttttagaga	417989	-	see also 9880 line
48969	FLJ23654	NM_152550.1	643	cccggtgacctgaaggttaata	417981	-	see also 9880 line
48970	FLJ23654	NM_152550.1	642	tcgggtgacctgaaggttaata	417980	-	see also 9880 line
48971	FLJ23657	NM_178497.2	355	cacacgctacccttactatagg	430893	-	see also 21688 line
48972	FLJ23657	NM_178497.2	353	gccacacgcttacttactatata	430892	-	see also 21688 line
48973	FLJ23657	NM_178497.2	358	accgttacttacttactatata	430894	-	see also 21688 line
48974	FLJ23703	NM_182534.1	387	cccacaaattaccgtaattgcaaa	434213	-	see also 21689 line
48975	FLJ23703	NM_182534.1	112	cccgccattctggcttcttaact	434211	-	see also 21689 line

図46 (続き)

1303

48976	FLJ23825	NM_173620.1	531	tgggtgtgtaggtgtctattac	426586	-	see also 21690 line
48977	FLJ23825	NM_173620.1	532	cggtgtgtaggtgtctattacc	426587	-	see also 21690 line
48978	FLJ23865	NM_152669.1	408	ggcgtgtgctgtgattgtgaga	419553	-	-
48979	FLJ23865	NM_152669.1	414	ggcgtgtgattgtgagattctgt	419554	-	see also 48978 line
48980	FLJ23878	NM_144990.1	248	ccctggcgacacactctctatgt	412463	-	see also 21691 line
48981	FLJ25045	NM_178537.3	3028	ctccgactgcggaatttctaca	431145	-	see also 21692 line
48982	FLJ25045	NM_178537.3	716	ccggaggttactactttggttg	431132	-	see also 21692 line
48983	FLJ25056	NM_182530.1	235	gacgatagttgccctctatatac	434180	-	see also 21693 line
48984	FLJ25056	NM_182530.1	245	ggcctctatacttagcttaaa	434183	-	see also 21693 line
48985	FLJ25067	NM_152504.2	502	aagtatccctccgcagatttcca	417300	-	see also 21694 line
48986	FLJ25067	NM_152504.2	153	agcgtgtgacataagagattacg	417284	-	see also 21694 line
48987	FLJ25102	NM_182626.1	386	gaccagcctacgtcttgaagg	434764	-	see also 21694 line
48988	FLJ25102	NM_182626.1	420	ttctgagtcaggtgttactcg	434765	-	see also 21695 line
48989	FLJ25124	NM_144698.2	601	cgcccgagtaattgttacagaca	411469	-	see also 21695 line
48990	FLJ25124	NM_144698.2	2981	tcacactacaggaatcatctact	411477	-	see also 21696 line
48991	FLJ25143	NM_182500.1	558	gagttctcgaagactatgacc	433970	-	see also 21697 line
48992	FLJ25161	NM_182522.2	727	ttgttaagtgctgccagattact	434153	-	see also 10267 line
48993	FLJ25161	NM_182522.2	727	cggtgtgcaacctcttctgttga	434152	-	see also 10267 line
48994	FLJ25168	NM_152466.1	479	atcagggtcactacatacttaag	416982	-	see also 21699 line
48995	FLJ25168	NM_152466.1	502	tacacctactgctgttggaatct	416983	-	see also 21699 line
48996	FLJ25224	NM_182495.2	20	tcctaggtactactcttctgttt	433910	-	see also 21700 line
48997	FLJ25224	NM_182495.2	760	taactgtgtgagccctcaacatat	433917	-	see also 21700 line
48998	FLJ25286	NM_152546.1	913	agcgtgtcacacttcttctgttg	417897	-	see also 9879 line
48999	FLJ25286	NM_152546.1	176	ttggccgactgaagtcaaaaaag	417883	-	see also 9879 line
49000	FLJ25323	NM_198521.1	855	cacacccgacgacacacacaaag	439100	-	see also 21702 line
49001	FLJ25323	NM_198521.1	376	ggcgtgttaagactacttctata	439090	-	see also 21702 line
49002	FLJ25328	NM_152483.1	505	agccagagcgcccaagaactcgc	417052	-	see also 21703 line
49003	FLJ25328	NM_152483.1	302	atggctcttctgtagcaattttt	417047	-	see also 21703 line
49004	FLJ25333	NM_152548.1	401	aacaaccaggcgctacacatagc	417907	-	see also 21704 line
49005	FLJ25333	NM_152548.1	901	gggggattatcgccacgaatga	417923	-	see also 21704 line
49006	FLJ25351	NM_152525.3	1297	aaccaatcgccaccagataatc	417647	-	see also 21705 line
49007	FLJ25351	NM_152525.3	1298	accaataggaccacagataatcca	417648	-	see also 21705 line
49008	FLJ25359	NM_144587.1	1580	cccgatatactgacattaaag	417614	-	see also 21705 line
49009	FLJ25359	NM_144587.1	1581	agccagcacgcctgtgaagtatg	410065	-	see also 21706 line
49010	FLJ25359	NM_144587.1	1581	ggggcacgcctgtgaagtatga	410066	-	see also 21706 line
49011	FLJ25371	NM_152543.1	603	agctgccgaagactaccacaaag	417858	-	see also 21707 line
49012	FLJ25371	NM_152543.1	320	ttgggaataccacagataattt	417847	-	see also 21707 line
49013	FLJ25371	NM_152543.1	86	atggcatctgtataataccaaa	417837	-	see also 21707 line
49014	FLJ25378	NM_152768.1	257	agccagaggtgattgtccaaagc	420890	-	see also 21708 line
49015	FLJ25378	NM_152768.1	277	agccagaggaaggctaaagtata	420891	-	see also 21708 line
49016	FLJ25393	NM_181645.1	103	ttggacacagattagattcttcg	432651	-	see also 21709 line
49017	FLJ25393	NM_181645.1	1039	gtggaagagtagacataactctga	432674	-	see also 21709 line
49018	FLJ25409	NM_144652.1	1211	tacagcgccaccagttacatcaa	410862	-	see also 21710 line
49019	FLJ25409	NM_144652.1	1214	agccgcccaccagttacatcaa	410864	-	see also 21710 line

図46 (続き)

1304

49020	FLJ25414	NM_152343.1	1036	gacaagaactgcctcaatctta	415726	-	see also 21711 line
49021	FLJ25414	NM_152343.1	160	atcgagagatgaactaagaaca	415723	-	see also 21711 line
49022	FLJ25416	NM_145018.2	798	gaactcagacacctaacaatca	412691	-	see also 21712 line
49023	FLJ25416	NM_145018.2	1649	aagatacacaagaataatgtca	412713	-	see also 21712 line
49024	FLJ25421	NM_152512.3	1282	gcocagacttaagggtatcaaaag	417373	-	see also 21713 line
49025	FLJ25421	NM_152512.3	696	cagcgactcctcaactctatatt	417357	-	see also 21713 line
49026	FLJ25422	NM_145000.2	698	agcgtatcaggtcttctatcttt	412549	-	see also 21714 line
49027	FLJ25422	NM_145000.2	1598	tacgaataacagctactatgattta	412571	-	see also 21714 line
49028	FLJ25429	NM_152376.2	258	gtgtcgcgtcatatataccatc	415966	-	see also 21715 line
49029	FLJ25429	NM_152376.2	255	gaggtgtgcgtcatatatacc	415965	-	see also 21715 line
49030	FLJ25436	NM_144581.1	599	atggaggtgcatctttatgcattt	409943	-	see also 21716 line
49031	FLJ25436	NM_144581.1	873	agcccgaaattgccttaccagtac	409949	-	see also 21716 line
49032	FLJ25444	NM_152761.1	1034	ctcaaacctctacgaataatgaaa	420801	-	see also 21717 line
49033	FLJ25444	NM_152761.1	1032	atctcaaacctctacgaataatga	420800	-	see also 21717 line
49034	FLJ25444	NM_152761.1	1078	cagtaacgcaagagatccataag	420804	-	see also 21718 line
49035	FLJ25476	NM_152493.2	207	aggatggccgagcctcgatttaa	417099	-	see also 21718 line
49036	FLJ25476	NM_152493.2	1404	ggcatcccggttcgaatctctct	417106	-	see also 21718 line
49037	FLJ25477	NM_152704.2	273	cgccgtcggggaagattaataaa	419899	-	see also 21719 line
49038	FLJ25477	NM_152704.2	1834	gtctcctgtcccggttaaaagc	419908	-	see also 21719 line
49039	FLJ25477	NM_152704.2	1751	agcggggagcgcctctatgatct	419906	-	see also 21719 line
49040	FLJ25530	NM_152722.3	334	acggtatccgactctttgaaat	420082	-	see also 9931 line
49041	FLJ25530	NM_152722.3	333	gaacctatccgactctttgaaaa	420081	-	see also 9931 line
49042	FLJ25534	NM_153234.3	875	gacaaagaactacgggtttacaaa	422441	-	see also 21721 line
49043	FLJ25534	NM_153234.3	689	aagccctctgtgaacaaagtgt	422432	-	see also 21721 line
49044	FLJ25555	NM_152345.3	604	ccctagtacacctacaaagtgt	415733	-	see also 21722 line
49045	FLJ25555	NM_152345.3	1013	acccgacacccgagacacatct	415737	-	see also 21722 line
49046	FLJ25590	NM_175895.2	459	aggagcgcaaaaacggcaaaaacg	429516	-	-
49047	FLJ25621	NM_198514.1	1511	cagtagagctcaggtatgtatt	438912	-	see also 10334 line
49048	FLJ25621	NM_198514.1	1220	tccatcaggtatcaaaagtaact	438907	-	see also 10334 line
49049	FLJ25660	NM_152481.1	737	ggctcagactgtcccttaggatacc	417044	-	see also 21724 line
49050	FLJ25660	NM_152481.1	529	cgccgtgggtacgcgtacattga	417037	-	see also 21724 line
49051	FLJ25694	NM_173604.1	819	gtcggaaocccgcctcagatgaaa	426478	-	see also 21725 line
49052	FLJ25694	NM_173604.1	906	tctcctcagtaaatcccaatgaag	426481	-	see also 21725 line
49053	FLJ25715	NM_182570.1	403	caccgaaactcgaggtacactct	434481	-	-
49054	FLJ25735	NM_152577.1	723	gtgggaaacccgtatgtatttta	418196	-	see also 21726 line
49055	FLJ25735	NM_152577.1	489	cagcgctcgttgtaaaaagtgc	418179	-	see also 21726 line
49056	FLJ25736	NM_152578.1	242	atggcgggaactctctaaagatgc	418218	-	see also 21727 line
49057	FLJ25736	NM_152578.1	141	cacttagactgtgcaactttatga	418216	-	see also 21727 line
49058	FLJ25770	NM_178555.2	1235	cccgagacagagcgtatgataatcc	431250	-	see also 10196 line
49059	FLJ25770	NM_178555.2	1234	ggccggacagagcgtgatcaatc	431249	-	see also 10196 line
49060	FLJ25773	NM_182560.1	484	aggggacaaagccgatgatacaca	434449	-	see also 21729 line
49061	FLJ25773	NM_182560.1	555	caactgcagagccttaagacataa	434450	-	see also 21729 line
49062	FLJ25791	NM_173559.1	683	aggggaacccgactcttactag	426078	-	see also 21730 line
49063	FLJ25791	NM_173559.1	461	aggagtcgattcccttaagtgtgc	426073	-	see also 21730 line

1305

図46 (続き)

49064	FLJ25801	NM_173553.1	828	caggaggcaagtagggcatatacc	426000	-	see also 21731 line
49065	FLJ25801	NM_173553.1	219	gagactcogggttgatgaag	425991	-	see also 21731 line
49066	FLJ25851	NM_174927.1	386	caggaatcaggtcataatgaag	428716	-	see also 21732 line
49067	FLJ25851	NM_174927.1	486	aagcatatccoggttaccagatg	428721	-	see also 21732 line
49068	FLJ25952	NM_153251.1	22	atgctaatatttgcaaatcact	422595	-	-
49069	FLJ25954	NM_173572.1	673	cacggcagctcogttcattaaat	426272	-	see also 21733 line
49070	FLJ25954	NM_173572.1	438	gagaaccagggtactacttttg	426266	-	see also 21733 line
49071	FLJ25955	NM_178821.1	782	atcacggggtcttttgatcacc	431408	-	see also 21734 line
49072	FLJ25955	NM_178821.1	386	tcggggtcatgctttatcacagg	431402	-	see also 21734 line
49073	FLJ25972	NM_178822.3	5776	gagcgaagagtagtaatgcttac	431577	-	see also 21735 line
49074	FLJ25972	NM_178822.3	2152	aggcacactatcgggaattaac	431480	-	see also 21735 line
49075	FLJ25976	NM_174943.2	662	cggagaacatgattttaacata	428770	-	see also 21736 line
49076	FLJ25989	NM_198512.1	745	ggcatatctgtcccttaatt	438875	-	see also 21737 line
49077	FLJ25989	NM_198512.1	804	tccttgagggcacgtggtaagg	438878	-	see also 21737 line
49078	FLJ26016	NM_198472.1	355	aagatagagaggttgagttta	438405	-	see also 21738 line
49079	FLJ30046	NM_144595.2	655	ctcagggtcacogtcgaatatgt	410118	-	see also 21739 line
49080	FLJ30046	NM_144595.2	794	gttatccgacagcctcttaag	410120	-	see also 21739 line
49081	FLJ30213	NM_145008.1	512	ccgctgtcacgcacattacagc	412587	-	see also 21740 line
49082	FLJ30213	NM_145008.1	603	tggccgagcctacactgttaact	412591	-	see also 21740 line
49083	FLJ30277	NM_153008.3	965	occtgttgataggcaattatt	421813	-	see also 21741 line
49084	FLJ30277	NM_153008.3	964	tcctgtgtcataggcattatt	421812	-	see also 21741 line
49085	FLJ30294	NM_144632.2	151	gactaaatatcgctatctctt	410594	-	see also 21742 line
49086	FLJ30294	NM_144632.2	780	tgtctagctggattactattct	410611	-	see also 21742 line
49087	FLJ30313	NM_152757.1	667	gcggggaagggaccatctgtatt	420697	-	-
49088	FLJ30317	NM_172136.1	182	aaggaaacagggaattttgtct	424268	-	-
49089	FLJ30373	NM_152479.1	220	gcgctgtatcgagagagaagaat	417016	-	see also 21743 line
49090	FLJ30373	NM_152479.1	394	gagcacgagagtgagtggttacg	417018	-	see also 21743 line
49091	FLJ30430	NM_153009.1	372	tgcacccaagcacctatcttc	421816	-	see also 21744 line
49092	FLJ30430	NM_153009.1	443	ggctgtcacggcggtttataca	421819	-	see also 21744 line
49093	FLJ30469	NM_182573.1	332	cgcggctgcacaaactgacaaatg	434482	-	see also 21745 line
49094	FLJ30469	NM_182573.1	539	atgacagttggcaatttctcagt	434484	-	see also 21745 line
49095	FLJ30507	NM_153010.3	549	tacacgtgcatagacaaatttc	421823	-	see also 21746 line
49096	FLJ30507	NM_153010.3	625	caggttcacccaagaagtatta	421825	-	see also 21746 line
49097	FLJ30525	NM_144584.1	521	cagcggtaccaggttcgttaaaa	409980	-	see also 21747 line
49098	FLJ30525	NM_144584.1	519	gacacggtaccaggttcgttaaa	409979	-	see also 21747 line
49099	FLJ30525	NM_144584.1	1478	aaccgcttatgtctaatgaaga	410014	-	see also 21747 line
49100	FLJ30634	NM_153014.1	757	ctcttcctctgtattccaatt	421854	-	see also 21748 line
49101	FLJ30634	NM_153014.1	795	tgggttaagatgaagttaaa	421855	-	see also 21748 line
49102	FLJ30655	NM_144643.1	1337	agcagttacagctagtataaaa	410657	-	see also 21749 line
49103	FLJ30655	NM_144643.1	1317	agcatcagataggcgtttacagc	410653	-	see also 21749 line
49104	FLJ30655	NM_144643.1	1108	aacatgaagtagctaaccaaca	410648	-	see also 21749 line
49105	FLJ30668	NM_153015.1	878	agctctatcgtcgaaacagattt	421879	-	see also 21750 line
49106	FLJ30668	NM_153015.1	387	agcgggaacggaagctgttaact	421864	-	see also 21750 line
49107	FLJ30672	NM_153016.2	366	ctctttgacgcttgaacatagg	421882	-	see also 21751 line

図46 (続き)

1306

49108	FLJ30707	NM_145019.2	768	tactgtctacgacaaatgctg	412759	-	-	-
49109	FLJ30707	NM_145019.2	1075	cacaaagggtgcaataagaagttt	412760	-	see also 49108 line	-
49110	FLJ30707	NM_145019.2	218	gtctctacagagcaatggattct	412758	-	see also 49108 line	-
49111	FLJ30794	NM_152527.1	836	gcgactgctctgcttagttg	417677	-	see also 21752 line	-
49112	FLJ30794	NM_152527.1	834	tagccacttgcttgcaattg	417676	-	see also 21752 line	-
49113	FLJ30834	NM_152399.1	549	aacggggcagtcgagtcgaatc	416271	-	see also 21753 line	-
49114	FLJ30834	NM_152399.1	361	ggcatctggtcgattctacaga	416268	-	see also 21753 line	-
49115	FLJ30851	NM_198553.1	323	gtgtgagctggcaaaatatt	439467	-	see also 10339 line	-
49116	FLJ30851	NM_198553.1	428	tcacaaacgggtggcgaactgc	439470	-	see also 10339 line	-
49117	FLJ30973	NM_152451.1	1313	agcaggttgactatttaacaga	416932	-	see also 21755 line	-
49118	FLJ30973	NM_152451.1	1073	atgtctggggagtgtaactgattc	416928	-	see also 21755 line	-
49119	FLJ30990	NM_152517.1	1877	gggtctagggcagtgaaagcttt	417462	-	see also 21756 line	-
49120	FLJ30990	NM_152517.1	1100	ctccggaacattaccataaagt	417458	-	see also 21756 line	-
49121	FLJ31031	NM_182533.1	262	ctgtcgggacccaagacctttcc	434206	-	see also 21757 line	-
49122	FLJ31031	NM_182533.1	553	aagacatgacgtctcttctatgg	434208	-	see also 21757 line	-
49123	FLJ31051	NM_153687.1	657	ctcactgaacggcctaaagattt	423510	-	see also 21758 line	-
49124	FLJ31051	NM_153687.1	679	tggaaagatagcacactaagaat	423513	-	see also 21758 line	-
49125	FLJ31052	NM_152378.1	918	ggcgtcgcaagttcgcgttttaca	415988	-	see also 21759 line	-
49126	FLJ31052	NM_152378.1	510	ggcgagcgtctctattcttagg	415986	-	see also 21759 line	-
49127	FLJ31164	NM_145003.1	197	ccttagagtgctgtagatgtgg	412578	-	see also 21761 line	-
49128	FLJ31164	NM_145003.1	196	ccctagagtgctgtagatgtgg	412577	-	see also 21761 line	-
49129	FLJ31166	NM_153022.1	1013	ggaaaggagtcgactcgaatagt	421887	-	see also 21762 line	-
49130	FLJ31166	NM_153022.1	750	gtgaaaggacgcgttcgtcttcc	421885	-	see also 21762 line	-
49131	FLJ31338	NM_152469.1	1110	atgcgtggcgaacgcgtattttct	416993	-	see also 21764 line	-
49132	FLJ31338	NM_152469.1	1114	gtgcgaacgcgtattttctaatg	416995	-	see also 21764 line	-
49133	FLJ31338	NM_152469.1	1115	tgcgcacgcgtattttctaatg	416996	-	see also 21764 line	-
49134	FLJ31340	NM_152748.2	616	gtgtaaagacgactcctaattt	420453	-	see also 9942 line	-
49135	FLJ31340	NM_152748.2	2529	tagtaatgacgactaactcaaaa	420509	-	see also 9942 line	-
49136	FLJ31434	NM_152496.1	806	ggcccgagagatggtttccattacc	417137	-	see also 21766 line	-
49137	FLJ31434	NM_152496.1	374	gtgcattttaccgcgtataagaac	417129	-	see also 21766 line	-
49138	FLJ31438	NM_152385.1	2067	aggatgacgcagtcacactaatg	416121	-	see also 21767 line	-
49139	FLJ31438	NM_152385.1	1569	atggggagcagagabacttataac	416106	-	see also 21767 line	-
49140	FLJ31461	NM_152454.1	204	atgaattgtagctgttgctaca	416954	-	see also 21768 line	-
49141	FLJ31461	NM_152454.1	559	atccacatgtgtcttcaattc	416957	-	see also 21768 line	-
49142	FLJ31528	NM_144679.1	86	aaggggacgctccgatgatgatg	411282	-	see also 21769 line	-
49143	FLJ31528	NM_144679.1	88	ggggagcgtccgatgatgatg	411283	-	see also 21769 line	-
49144	FLJ31564	NM_144720.1	1530	cacgggagcagtcgagtcgaatga	411779	-	see also 9739 line	-
49145	FLJ31564	NM_144720.1	1275	ggggctccagatcaacataggg	411774	-	see also 9739 line	-
49146	FLJ31564	NM_144720.1	1582	aaggggcattaccctcttgatga	411780	-	see also 9739 line	-
49147	FLJ31568	NM_152509.1	491	tcgacgctgtctctcaaatatg	417316	-	see also 21771 line	-
49148	FLJ31568	NM_152509.1	931	acctgtctcgcagacatattg	417318	-	see also 21771 line	-
49149	FLJ31606	NM_153025.1	381	cagtagacagcagcctataatt	421894	-	see also 21772 line	-
49150	FLJ31606	NM_153025.1	49	aaggggatccacctattcagttcc	421891	-	see also 21772 line	-
49151	FLJ31659	NM_153027.1	387	ggctgtcacggccacgaattgc	421971	-	-	-

図46 (続き)

1307

49152	FLJ31659	NM_153027.1	304	tcctggagaagcgaatcgtttt	421970	-	see also 49151 line
49153	FLJ31737	NM_144984.1	381	ctccgatcaaggcattactgtct	412436	-	see also 21773 line
49154	FLJ31737	NM_144984.1	550	ttgccttcacccagactaac	412439	-	see also 21773 line
49155	FLJ31751	NM_152652.1	166	agccgaatggttgaacatacc	419510	-	see also 21774 line
49156	FLJ31751	NM_152652.1	161	ttctcagccgaatgagttgaac	419509	-	see also 21774 line
49157	FLJ31795	NM_144609.1	335	aggaggcacaatcgtgttaag	410289	-	see also 21775 line
49158	FLJ31795	NM_144609.1	462	agggtctacacatgaacattg	410291	-	see also 21775 line
49159	FLJ31810	NM_152570.1	2153	aggattcgttcagatogttttc	418149	-	see also 9884 line
49160	FLJ31810	NM_152570.1	2180	tgcgaaacagacccttgatgaca	418152	-	see also 9884 line
49161	FLJ31818	NM_152556.1	399	agggcgaaggtcgtatgaatgg	418076	-	see also 9881 line
49162	FLJ31818	NM_152556.1	708	ctgtaragaggtgtctataatgt	418086	-	see also 9881 line
49163	FLJ31842	NM_152487.1	714	agctatcgtatcaatggaatac	417075	-	see also 9878 line
49164	FLJ31842	NM_152487.1	570	tgctgcctgtatgcatactacc	417070	-	see also 9878 line
49165	FLJ31846	NM_144974.1	788	aggaggaaacccaataacacaag	412164	-	see also 21779 line
49166	FLJ31846	NM_144974.1	714	ctccatgaagaagcgagatttgg	412162	-	see also 21779 line
49167	FLJ31882	NM_152460.1	709	gactaaggatcacagtgtatgtgc	416966	-	-
49168	FLJ31882	NM_152460.1	653	ctgtactactctctttttaca	416964	-	see also 49167 line
49169	FLJ31882	NM_152460.1	732	aagggtgtcccaaacctt.tgtgc	416967	-	see also 49167 line
49170	FLJ31951	NM_144726.1	1010	agggattcagcgtttcattgaat	411836	-	see also 21780 line
49171	FLJ31951	NM_144726.1	1989	cagggaacaataatggtacattg	411858	-	see also 21780 line
49172	FLJ31952	NM_144682.2	1190	ttcaaaactcgggtagagtaca	411291	-	see also 21781 line
49173	FLJ31952	NM_144682.2	1206	ggtacagacacaaaatagttaga	411292	-	see also 21781 line
49174	FLJ31952	NM_144682.2	2540	agccgagtagacatacaacaagaaa	411299	-	see also 21781 line
49175	FLJ32000	NM_152498.1	403	tgccggaagcgaagaagtcttaa	417163	-	see also 21782 line
49176	FLJ32000	NM_152498.1	1971	aaccattcgtcccaagtgaatgc	417210	-	see also 21782 line
49177	FLJ32000	NM_152498.1	404	gcccgaagcgaagaagtcttaac	417164	-	see also 21782 line
49178	FLJ32001	NM_152609.1	218	gacagagatactcctacatatta	418763	-	see also 9899 line
49179	FLJ32001	NM_152609.1	945	cagttacggctcctaaggaattca	418780	-	see also 9899 line
49180	FLJ32011	NM_182516.1	534	ttgcctgtcaactactactgatt	434051	-	see also 21784 line
49181	FLJ32011	NM_182516.1	531	ttgtgcctgttcaactactaga	434050	-	see also 21784 line
49182	FLJ32028	NM_152680.1	584	gcccgaacttgatgtttaccctac	419696	-	see also 21785 line
49183	FLJ32028	NM_152680.1	342	ttggttaatccattgattttta	419689	-	see also 21785 line
49184	FLJ32063	NM_153031.1	964	acccgcacagtgtaagcaacc	421980	-	see also 21786 line
49185	FLJ32063	NM_153031.1	777	ccaggttaatgcgttcattatt	421978	-	see also 21786 line
49186	FLJ32063	NM_153031.1	1117	acctagtccttgatttcgaagg	421984	-	see also 21786 line
49187	FLJ32065	NM_153032.1	443	ctccgcagctccctcagattag	421986	-	-
49188	FLJ32065	NM_153032.1	348	tcocgggtggcccgagattgtct	421985	-	see also 49187 line
49189	FLJ32096	NM_173795.2	548	gtcggggtcacccgtccaaagc	427981	-	-
49190	FLJ32096	NM_173795.2	328	ggctgtgcagagcccaatacgaag	427979	-	see also 49189 line
49191	FLJ32096	NM_173795.2	527	ccctccacagtaggaagatgt	427980	-	see also 49189 line
49192	FLJ32110	NM_181646.2	2142	aaccaaagcagtagtagctaat	432714	-	see also 21787 line
49193	FLJ32110	NM_181646.2	2143	accaaaagcagtagtagctaat	432715	-	see also 21787 line
49194	FLJ32112	NM_153035.1	273	tacaagcaggccacgattgaatc	421993	-	see also 21788 line
49195	FLJ32112	NM_153035.1	585	gagtcgttgaggaaaatgctca	422008	-	see also 21788 line

図46 (続き)

1308

49196	FLJ32206	NM_152497.1	1125	tggctcccttggtgattgtatta	417149	-	see also 21789 line
49197	FLJ32206	NM_152497.1	942	tgaatacaaaccaattacagact	417147	-	see also 21789 line
49198	FLJ32252	NM_182510.1	1580	ccgagatcagcgtggtcacaagg	434034	-	see also 21790 line
49199	FLJ32252	NM_182510.1	839	aggtggagcccccagatctagaga	434031	-	see also 21790 line
49200	FLJ32312	NM_144709.1	1448	tgcgagctcggtctattcaattc	411548	-	see also 21791 line
49201	FLJ32312	NM_144709.1	761	ctcgatagtcgccagattgtttt	411536	-	see also 21791 line
49202	FLJ32334	NM_144565.1	923	caccccaagatccgattgtgc	409682	-	see also 21792 line
49203	FLJ32334	NM_144565.1	219	ttcagggtggaccagattttc	409678	-	see also 21792 line
49204	FLJ32343	NM_152434.1	1781	taccacacgtacggctcttact	416797	-	see also 21793 line
49205	FLJ32343	NM_152434.1	439	gacattgtagccgaagatatgg	416771	-	see also 21793 line
49206	FLJ32363	NM_198566.1	522	cagcgagccctagattttcgaaa	439614	-	see also 10343 line
49207	FLJ32363	NM_198566.1	1600	ggcataactatcgatatctgtgc	439646	-	see also 10343 line
49208	FLJ32363	NM_198566.1	523	agcgagccctagattttcraaac	439615	-	see also 10343 line
49209	FLJ32384	NM_144608.1	255	aaccagacccgtgtatgcaga	410278	-	see also 21795 line
49210	FLJ32384	NM_144608.1	1010	gaggtccagcccgaaaccagc	410282	-	see also 21796 line
49211	FLJ32416	NM_144616.2	551	atcgtcgccctgcttaagtctg	410343	-	see also 21796 line
49212	FLJ32416	NM_144616.2	392	ggagacacctgctcacaacagt	410341	-	see also 21797 line
49213	FLJ32421	NM_144695.1	928	gactcatagaagcatacgtattt	411359	-	see also 21797 line
49214	FLJ32421	NM_144695.1	923	gtcaacagctatagaagcatacag	411358	-	see also 21797 line
49215	FLJ32440	NM_173685.1	439	tggatcggcaactaaaccattat	427403	-	see also 10110 line
49216	FLJ32447	NM_153038.1	801	gagccattgttcgcatgtga	427412	-	see also 10110 line
49217	FLJ32447	NM_153038.1	487	accggttcctcgagttttaa	422022	-	see also 21799 line
49218	FLJ32447	NM_153038.1	488	cccgagctcgcgagtttaaaa	422023	-	see also 21799 line
49219	FLJ32447	NM_153038.1	597	ggcggcatctggccagctcttgg	422028	-	see also 21799 line
49220	FLJ32535	NM_152547.1	442	ttccggagtagcagaccttaagt	417902	-	-
49221	FLJ32535	NM_152547.1	592	cccttgacaaaggccatatgg	417903	-	see also 49220 line
49222	FLJ32535	NM_152547.1	839	acctgttcagctctggaaacatct	417904	-	see also 49220 line
49223	FLJ32549	NM_152440.1	214	ccggcagaagaggtctatcacgc	416812	-	see also 9866 line
49224	FLJ32549	NM_152440.1	1217	cccgaaacctcaattaccattg	416833	-	see also 9866 line
49225	FLJ32642	NM_152415.1	912	taccgacaagccaaaatggttt	416467	-	see also 21801 line
49226	FLJ32642	NM_152415.1	394	ctcagtatagccgaaataacaga	416444	-	see also 21801 line
49227	FLJ32642	NM_152415.1	523	ttccacaatagcagacatacctaa	416452	-	see also 21801 line
49228	FLJ32670	NM_144612.3	1135	ctcccgcttcctgtagagttag	410310	-	see also 21802 line
49229	FLJ32670	NM_144612.3	398	aacggatcacgtactactttcc	410298	-	see also 21802 line
49230	FLJ32675	NM_173811.2	304	accggacattggaccgttttaag	428217	-	see also 21803 line
49231	FLJ32675	NM_173811.2	308	gacattggaccgttttaagctgg	428219	-	see also 21803 line
49232	FLJ32675	NM_173811.2	531	atcagtagcgcgtctatgagctg	428227	-	see also 21803 line
49233	FLJ32682	NM_182542.1	988	taccagacaaactccgtaaaatc	434290	-	see also 21804 line
49234	FLJ32682	NM_182542.1	2164	ttcatagagccgctgaattatc	434312	-	see also 21804 line
49235	FLJ32702	NM_152337.1	435	tgcattgcccagggaagataacc	415705	-	see also 21805 line
49236	FLJ32702	NM_152337.1	322	ttctgatgtcagtgacattacg	415701	-	see also 21805 line
49237	FLJ32734	NM_144681.1	306	ctccagaaactcccgaattgtga	411286	-	see also 21806 line
49238	FLJ32734	NM_144681.1	913	acctggcccagcaatgtcatc	411289	-	see also 21806 line
49239	FLJ32742	NM_152580.1	485	tcccagtatgttccattttaa	418252	-	see also 21807 line

図46 (続き)

1309

49240	FLJ32742	NM_152580.1	586	ctgcaagaccctacatggtttc	418253	-	see also 21807 line
49241	FLJ32743	NM_145020.2	856	ggcacccctgttgaaagtaaca	412771	-	see also 21808 line
49242	FLJ32743	NM_145020.2	858	cagccctgttgaaagtaacaac	412772	-	see also 21809 line
49243	FLJ32745	NM_144978.1	485	gacccctgactggtgttagt	412227	-	see also 21809 line
49244	FLJ32745	NM_144978.1	141	ctgccccgcagtgatgtttt	412212	-	see also 21809 line
49245	FLJ32745	NM_144978.1	402	tagagtttagtacctgaaataa	412224	-	see also 21809 line
49246	FLJ32762	NM_145023.3	1256	aagcccaactaacatgaattt	412824	-	see also 21810 line
49247	FLJ32762	NM_145023.3	578	aaggactacataatttaacatta	412809	-	see also 21810 line
49248	FLJ32770	NM_182525.1	460	aagaactcacagctttttgagg	434165	-	-
49249	FLJ32770	NM_182525.1	251	acctgtctccgcacatga	434184	-	see also 49248 line
49250	FLJ32771	NM_145017.1	227	agcctacggtcggaggatttca	412668	-	see also 21811 line
49251	FLJ32771	NM_145017.1	645	ttcatgagctcggagtaacattc	412670	-	see also 21811 line
49252	FLJ32779	NM_173521.1	784	atgagccgtcaagttttcttatt	425405	-	see also 21812 line
49253	FLJ32779	NM_173521.1	1471	tgccctagaaagtgottcaatta	425427	-	see also 21812 line
49254	FLJ32783	NM_144968.1	520	aagaacggcggtgaatttagct	412001	-	see also 21813 line
49255	FLJ32783	NM_144968.1	569	ggcttcaacatctcttagttac	412006	-	see also 21813 line
49256	FLJ32784	NM_144623.1	952	ctgcaacatcattagcaataaca	410443	-	see also 21814 line
49257	FLJ32784	NM_144623.1	1254	atcaaatgtctctcaactctc	410445	-	see also 21814 line
49258	FLJ32785	NM_152494.1	1763	tacgattgcctgttagtgtgt	417126	-	see also 21815 line
49259	FLJ32785	NM_152494.1	495	agccaatcgcgcacacatctca	417110	-	see also 21815 line
49260	FLJ32785	NM_152494.1	596	ccccctacggcgcatgtcaag	417111	-	see also 21815 line
49261	FLJ32786	NM_144648.1	90	ctgagcccgatgattacagttt	410727	-	see also 21816 line
49262	FLJ32786	NM_144648.1	2353	gaccgggaagcactaacctaac	410804	-	see also 21816 line
49263	FLJ32796	NM_153806.1	680	ggcaccggctcgaagagtgatgc	423296	-	see also 21817 line
49264	FLJ32796	NM_153806.1	1862	cacaggactcgcataaagggtgt	423312	-	see also 21817 line
49265	FLJ32800	NM_152847.1	950	aaccagatgtcttattcgatag	419473	-	see also 21818 line
49266	FLJ32800	NM_152847.1	1300	aactagtatgacttcaatatta	419490	-	see also 21818 line
49267	FLJ32825	NM_152492.1	429	caccggctcattgtccaaaatgg	417084	-	see also 21819 line
49268	FLJ32825	NM_152492.1	1947	gagaagcgcactactataatcagc	417098	-	see also 21819 line
49269	FLJ32827	NM_173081.1	623	gtgtcagctaaccttcaagaac	424624	-	see also 21820 line
49270	FLJ32827	NM_173081.1	1867	acctacggctgtactcttaac	424676	-	see also 21820 line
49271	FLJ32830	NM_152781.1	1767	tgctgaaacacacgaaacacatag	421124	-	see also 21821 line
49272	FLJ32830	NM_152781.1	1766	ctgtcgaacacacgaaacacata	421123	-	see also 21821 line
49273	FLJ32830	NM_152781.1	1764	tgctgtcgaacacacgaaacata	421122	-	see also 21821 line
49274	FLJ32831	NM_153040.1	737	aagctcacaggttgatgtttga	422038	-	see also 21822 line
49275	FLJ32831	NM_153040.1	541	aagggtccacctaataaggag	422034	-	see also 21822 line
49276	FLJ32844	NM_173543.1	995	agctacggcccaagctaaagggtg	425754	-	see also 21823 line
49277	FLJ32844	NM_173543.1	2435	gagggtcagctgtttttttatg	425763	-	see also 21823 line
49278	FLJ32844	NM_173543.1	1207	gccaaagcgaactctacactaga	425755	-	see also 21823 line
49279	FLJ32855	NM_182791.1	846	ctctgttactcagacaagtcca	435293	-	see also 21824 line
49280	FLJ32855	NM_182791.1	305	gaggacacaggtgcagcatttgc	435290	-	see also 21824 line
49281	FLJ32859	NM_152539.1	364	aacacccgtctgaacagactaaag	417770	-	see also 21825 line
49282	FLJ32859	NM_152539.1	1089	cagacagacagctaatcataaa	417787	-	see also 21825 line
49283	FLJ32880	NM_152762.1	1101	gcctatgcctcggatcacatga	420821	-	see also 21826 line

図46 (続き)

1310

49284	FLJ32880	NM_152762.1	37	ggcaggacacccgatgctaaat	420815	-	see also 21826 line
49285	FLJ32884	NM_144702.1	1607	cccoatacgtgtcaactaga	411491	-	see also 21827 line
49286	FLJ32884	NM_144702.1	676	gtctctgggaacaataacacg	411479	-	see also 21827 line
49287	FLJ32884	NM_144702.1	1383	agcaccagagatgggaagtcttc	411486	-	see also 21827 line
49288	FLJ32894	NM_144667.1	251	tcggagcctcaactttgactgg	411150	-	-
49289	FLJ32915	NM_145014.1	1167	gaccgggtagcccggtatttga	412637	-	see also 21828 line
49290	FLJ32915	NM_145014.1	662	agcccaatctatcaatagtc	412623	-	see also 21828 line
49291	FLJ32926	NM_144577.1	758	gcccctgagacactctagaagacc	409906	-	see also 21829 line
49292	FLJ32926	NM_144577.1	255	ggagatcgaggagcgcaacttgc	409905	-	see also 21829 line
49293	FLJ32934	NM_144622.1	1461	tacgtggagaataattatctga	410427	-	see also 21830 line
49294	FLJ32934	NM_144622.1	702	aagtgtgcacgggttttcgatga	410415	-	see also 21830 line
49295	FLJ32934	NM_144622.1	1938	ccggctgcacgaaggatttatag	410438	-	see also 21830 line
49296	FLJ32940	NM_144696.2	1797	ttcggtactccaagcgtatatat	411428	-	see also 21831 line
49297	FLJ32940	NM_144696.2	742	gtgatggacccagcgatttaga	411392	-	see also 21831 line
49298	FLJ32940	NM_144696.2	1403	ttctactgtcaaaatcacgatact	411415	-	see also 21831 line
49299	FLJ32942	NM_144594.1	95	ttgcaatgccoctatgacaaaaa	410096	-	see also 21832 line
49300	FLJ32942	NM_144594.1	141	ttcocttatcttcaagtcg	410100	-	see also 21832 line
49301	FLJ32949	NM_173812.3	1844	ttcgacaggttggtttgagaag	428245	-	see also 21833 line
49302	FLJ32949	NM_173812.3	1850	gagttcgttttgagaagattatc	428246	-	see also 21833 line
49303	FLJ32949	NM_173812.3	677	atctttatccagaggaatacata	428244	-	see also 21833 line
49304	FLJ32954	NM_144713.1	501	atccagtaaacatgaatagttt	411631	-	see also 21834 line
49305	FLJ32955	NM_144713.1	496	ttctcatcccgtaaacatgaat	411629	-	see also 21834 line
49306	FLJ32955	NM_153041.1	237	ctgtctcttattccaagctttc	422045	-	see also 21835 line
49307	FLJ32955	NM_153041.1	211	ttctcaatcagatgttagctca	422044	-	see also 21835 line
49308	FLJ32965	NM_182506.1	935	gggttatatgacggaattgagc	434009	-	see also 21836 line
49309	FLJ32965	NM_182506.1	1241	cggtagcagttccaaggttaagt	434011	-	see also 21836 line
49310	FLJ33008	NM_152449.2	593	ggagaacaagacttatgctttg	416881	-	see also 21837 line
49311	FLJ33008	NM_152449.2	552	tggaacaagtgcagatatcaaga	416879	-	see also 21837 line
49312	FLJ33069	NM_144649.1	425	gaccagcgttatgataaggaga	410820	-	see also 9725 line
49313	FLJ33069	NM_144649.1	301	ccctgacagggccccactatacc	410816	-	see also 9725 line
49314	FLJ33084	NM_152500.1	964	ggcgttgaggaggcagaattcttg	417222	-	see also 21839 line
49315	FLJ33084	NM_152500.1	1212	ctggccctgcacccctatgctcc	417224	-	see also 21839 line
49316	FLJ33167	NM_152683.1	1085	ttcggctatataaatcaataaaa	419777	-	see also 21840 line
49317	FLJ33167	NM_152683.1	1055	atctcggagtttatcaagaagt	419773	-	see also 21840 line
49318	FLJ33167	NM_152683.1	257	aacgagcatcattatgagagg	419748	-	see also 21840 line
49319	FLJ33207	NM_178554.2	1190	cccgacgctgttcatttctcgc	431221	-	see also 21841 line
49320	FLJ33207	NM_178554.2	1189	cccgacgctgttcatttctcgc	431220	-	see also 21841 line
49321	FLJ33207	NM_178554.2	384	ttctccttggctaaacgtttaca	431207	-	see also 21841 line
49322	FLJ33215	NM_148894.1	1592	aacgacacagctcattgttatt	415155	-	see also 21842 line
49323	FLJ33215	NM_148894.1	1521	tggatgtgtccaaaaccatattc	415151	-	see also 21842 line
49324	FLJ33318	NM_153229.1	384	ccctacagtgagggtattctga	422386	-	-
49325	FLJ33318	NM_153229.1	126	tgccctgcccacaaggattcaat	422385	-	see also 49324 line
49326	FLJ33387	NM_182526.1	324	ggaggttcgtgtgaactgaac	434166	-	see also 21844 line
49327	FLJ33496	NM_182587.1	948	caccgaggaaactcctttgatgg	434542	-	see also 21845 line

図46 (続き)

1311

49328	FLJ33496	NM_192587.1	781	agccatcagggaacatcattaca	434537	-	see also 21845 line
49329	FLJ33496	NM_192587.1	184	ggcccaactggggaagaacaat	434532	-	see also 21845 line
49330	FLJ33516	NM_152423.2	949	cccaaatggtgatatactattc	416553	-	see also 21846 line
49331	FLJ33516	NM_152423.2	947	caaccacaatggtgatatactatt	416551	-	see also 21846 line
49332	FLJ33534	NM_182586.1	429	agcaggtctctgttgataatattt	434528	-	see also 21847 line
49333	FLJ33534	NM_182586.1	431	caggtctgttgataatatttct	434529	-	see also 21847 line
49334	FLJ33590	NM_173821.1	1454	ttcgagctcttgatgatataaa	428335	-	see also 21848 line
49335	FLJ33590	NM_173821.1	512	tgagcgcccaacgcacacaaagg	428332	-	see also 21848 line
49336	FLJ33600	NM_198478.1	573	ggctggtgtcgtggaagaagtc	438451	-	see also 21849 line
49337	FLJ33600	NM_198478.1	531	tgggcaagcaccctgttgtaagc	438448	-	see also 21849 line
49338	FLJ33610	NM_173697.1	288	ggcctaagagcctggagattata	427698	-	-
49339	FLJ33610	NM_173697.1	287	tgcctaaagagcctggagatttat	427697	-	see also 49338 line
49340	FLJ33620	NM_178824.3	1724	ctcatggaagcgaataaagtcc	431760	-	see also 21850 line
49341	FLJ33620	NM_178824.3	1372	accacgggagtcgcgaacttga	431744	-	see also 21850 line
49342	FLJ33641	NM_152687.1	714	aacggataaggaactatataaaa	419810	-	see also 21851 line
49343	FLJ33641	NM_152687.1	747	gtctaatttoggaggagcatatct	419812	-	see also 21851 line
49344	FLJ33641	NM_152687.1	500	acogtgttgccacacgatttacc	419804	-	see also 21851 line
49345	FLJ33706	NM_182584.1	707	cagtttcttccaattcatcacg	434519	-	see also 21853 line
49346	FLJ33708	NM_173675.1	338	tcctcttgaagtgcacttgaag	427314	-	see also 21854 line
49347	FLJ33710	NM_198480.1	41	cactgtctcatgtgtacatacag	438462	-	see also 21855 line
49348	FLJ33710	NM_198480.1	176	tgcacgcaatgtgaaagaagttt	438463	-	see also 21855 line
49349	FLJ33761	NM_153211.1	1432	ctctgtgtgtggcgtctattga	422176	-	see also 9976 line
49350	FLJ33761	NM_153211.1	1672	cagcctgatgcctgttatgaact	422191	-	see also 9976 line
49351	FLJ33768	NM_173610.1	217	tggcaacttctcgtctatttt	426493	-	see also 21858 line
49352	FLJ33768	NM_173610.1	218	tggaacttctcgtctattttg	426494	-	see also 21858 line
49353	FLJ33790	NM_173593.1	464	cggctacactcgcgcgaatc	426298	-	see also 21859 line
49354	FLJ33810	NM_182558.1	486	ctgggaataccactaagaactaga	434447	-	see also 21860 line
49355	FLJ33810	NM_182558.1	346	ctgaaccagatcagttgttctct	434445	-	see also 21860 line
49356	FLJ33814	NM_173510.1	491	ttcatatcctgggattatagatg	425233	-	see also 10077 line
49357	FLJ33814	NM_173510.1	496	tactgggattatagattatt	425235	-	see also 10077 line
49358	FLJ33814	NM_173510.1	492	tccatacctgggattatagattg	425234	-	see also 10077 line
49359	FLJ33817	NM_152348.1	814	tcggcctctgaagttcttatt	415757	-	see also 21862 line
49360	FLJ33817	NM_152348.1	815	cggcctgctgacgtctgttatg	415758	-	see also 21863 line
49361	FLJ33860	NM_173644.1	602	tgcgaagtctgcaccacataaa	426943	-	see also 21863 line
49362	FLJ33860	NM_173644.1	646	atgcgaattttccaaaaactact	426944	-	see also 21863 line
49363	FLJ33915	NM_182613.1	1566	agcgacctaacataacatactg	434683	-	see also 21864 line
49364	FLJ33915	NM_182613.1	1563	tccagcgacctaacataacata	434681	-	see also 21864 line
49365	FLJ33962	NM_153213.2	523	ggcaaggctcggagaagaagtct	422198	-	see also 21865 line
49366	FLJ33962	NM_153213.2	2287	ggccccaggttcagtgtgttagg	422204	-	see also 21865 line
49367	FLJ33977	NM_173666.1	669	ttcggtatgcagcgaactataga	427233	-	see also 21866 line
49368	FLJ33977	NM_173666.1	356	tgcgtacagttctctactagc	427215	-	see also 21866 line
49369	FLJ34047	NM_173669.1	123	ctcccgacgtgcactacgattcc	427262	-	see also 21867 line
49370	FLJ34064	NM_152633.1	2543	gtctgtcgcgtcgtttatcaga	419406	-	see also 21868 line
49371	FLJ34064	NM_152633.1	1976	aactgtcctaagaatcgttatgt	419384	-	see also 21868 line

図46 (続き)

1312

49372	FLJ34154	NM_173813.2	1577	aactggttgccgaaagacttgg	428294	-	see also 21869 line
49373	FLJ34154	NM_173813.2	1845	gagctattgctggtccaaacttt	428297	-	see also 21869 line
49374	FLJ34278	NM_173602.1	433	gcaggagatgaacgatcgtatc	426458	-	see also 21870 line
49375	FLJ34278	NM_173602.1	483	tgcactggcaagacataaagaac	426461	-	see also 21870 line
49376	FLJ34283	NM_182612.1	202	tgcagctgggtgcaagacttcc	434676	-	-
49377	FLJ34443	NM_175918.2	1713	gagcgtgttaccgtacattctac	429567	-	see also 21871 line
49378	FLJ34443	NM_175918.2	1786	ctctgcacctogagataacgtag	429572	-	see also 21871 line
49379	FLJ34503	NM_173673.1	694	caccctcactagcacttaattt	427310	-	see also 21872 line
49380	FLJ34503	NM_173673.1	692	tacacccactagcacttaata	427309	-	see also 21872 line
49381	FLJ34503	NM_173673.1	576	ttagcactgtttacagattttct	427307	-	see also 21872 line
49382	FLJ34512	NM_173476.2	456	caccagatctagcgtcaataag	424942	-	see also 21873 line
49383	FLJ34512	NM_173476.2	457	accagatctagcgtcaataag	424943	-	see also 21873 line
49384	FLJ34512	NM_173476.2	233	tgcacctggcgtcaatttcagc	424941	-	see also 21873 line
49385	FLJ34583	NM_198276.1	261	gcggtgttcaggttcccaatcg	437422	-	see also 21874 line
49386	FLJ34583	NM_198276.1	501	ctgggctacgtgggttaacctca	437427	-	see also 21874 line
49387	FLJ34633	NM_152365.1	1032	acctggagggtcgttcaactcg	415823	-	see also 21875 line
49388	FLJ34633	NM_152365.1	984	cgcggcatcattgcattagtag	415821	-	see also 21875 line
49389	FLJ34633	NM_152365.1	975	cgcgtgttacgcggcattcctcg	415820	-	see also 21875 line
49390	FLJ34690	NM_182567.1	447	ggcacaagatcactgactatctcc	434479	-	see also 21876 line
49391	FLJ34690	NM_182567.1	338	caccatgaagggttgcatttgc	434476	-	see also 21876 line
49392	FLJ34766	NM_178502.2	491	ggcggagacttctgacatcttgt	430917	-	see also 21877 line
49393	FLJ34766	NM_178502.2	1197	accagcgtctcaactcactatc	430921	-	see also 21877 line
49394	FLJ34780	NM_173651.1	86	aacgcctattcctaattgtagata	427066	-	see also 21878 line
49395	FLJ34780	NM_173651.1	338	ctggttttaacggagagagatata	427068	-	see also 21878 line
49396	FLJ34790	NM_173621.1	942	cacggtcaactctatgttgg	426604	-	see also 21879 line
49397	FLJ34790	NM_173621.1	940	gacacgcgtcaactctatgttgg	426603	-	see also 21879 line
49398	FLJ34836	NM_173668.1	462	gtcgttaggcacttgcatttaacc	427253	-	see also 21880 line
49399	FLJ34836	NM_173668.1	475	tgttttaaccgtgagaattacc	427255	-	see also 21880 line
49400	FLJ34922	NM_152270.1	2595	ttagggaaaccttcaagaattaaag	415252	-	see also 21881 line
49401	FLJ34922	NM_152270.1	1141	accccaacgcccgataaaccttca	415237	-	see also 21881 line
49402	FLJ34969	NM_152678.1	525	tccgacaagttcagagataaac	419639	-	see also 9911 line
49403	FLJ35093	NM_198549.1	238	ctcagggtggctaaaaagttgttt	439374	-	see also 21883 line
49404	FLJ35093	NM_198549.1	1810	tccgcgcactgagcgttttaag	439413	-	see also 21883 line
49405	FLJ35093	NM_198549.1	1362	accgatcactggggtgtagtactga	439402	-	see also 21883 line
49406	FLJ35119	NM_175871.2	502	ggcactgtccacgcggatttttc	429377	-	see also 21884 line
49407	FLJ35119	NM_175871.2	506	ctgctccagcgggtttttctgc	429378	-	see also 21884 line
49408	FLJ35220	NM_173627.2	855	gagagctcctagcactttgtga	426639	-	see also 21885 line
49409	FLJ35283	NM_152702.1	531	cacaggactacgcacatcacatct	419896	-	see also 21886 line
49410	FLJ35283	NM_152702.1	593	gttaggtctcaagggaattcagc	419898	-	see also 21886 line
49411	FLJ35424	NM_173661.1	660	agcagataggtccacaaagtaga	427147	-	see also 21887 line
49412	FLJ35424	NM_173661.1	440	gagaaaacgttccctgaacatgc	427144	-	see also 21887 line
49413	FLJ35453	NM_152600.1	1529	cccgtccctccctgcaaacatta	418729	-	see also 21888 line
49414	FLJ35453	NM_152600.1	1535	ggcctcctgcaaacattagaagaag	418732	-	see also 21888 line
49415	FLJ35487	NM_173820.1	173	aggaccgcgaccatttagatcacc	428326	-	see also 21889 line

1313

図 46 (続き)

49416	FLJ35487	NM_173820.1	405	atggagggttcagttattct	428330	-	see also 21889 line
49417	FLJ35700	NM_178533.2	984	cagttcagggtctttttgac	431114	-	-
49418	FLJ35700	NM_178533.2	845	acctcaagactatttaagagc	431113	-	see also 49417 line
49419	FLJ35709	NM_173589.1	848	gcctttacggaagtccttacc	426331	-	see also 21890 line
49420	FLJ35709	NM_173589.1	1175	tacaggagcggagtcaaaactgt	426338	-	see also 21890 line
49421	FLJ35709	NM_173589.1	1177	caggagcggagtcaaaactgtga	426339	-	see also 21890 line
49422	FLJ35721	NM_173684.1	546	agcacaggtgaaattactgaaca	427392	-	see also 21891 line
49423	FLJ35721	NM_173684.1	450	tggggagctttgtataaaata	427390	-	see also 21891 line
49424	FLJ35725	NM_152544.1	1126	agcaaacggagcggaaacagaga	417875	-	see also 21892 line
49425	FLJ35725	NM_152544.1	708	acgccaggtcgggtgtgtaacc	417869	-	see also 21892 line
49426	FLJ35728	NM_152610.1	693	agcagacaggttgatcattagc	418810	-	see also 21893 line
49427	FLJ35728	NM_152610.1	629	ttctgtccctcgcaaaagtca	418807	-	see also 21893 line
49428	FLJ35740	NM_147195.1	448	tcctgtctactttctttttaga	415093	-	-
49429	FLJ35740	NM_147195.1	447	ctccgtctactttcttttag	415092	-	see also 49428 line
49430	FLJ35757	NM_152598.1	445	ttgagagatccgggtttcttagc	418662	-	see also 21894 line
49431	FLJ35757	NM_152598.1	2491	cacaaacgagctgtgatattca	418699	-	see also 21894 line
49432	FLJ35773	NM_152599.1	469	tgttccaccggttagacaaaaat	418702	-	see also 21895 line
49433	FLJ35775	NM_152599.1	1816	tgcctccgagagcggaaatcaag	418726	-	see also 21895 line
49434	FLJ35775	NM_152418.1	680	caagctatcactctttcagtagc	416501	-	see also 21896 line
49435	FLJ35775	NM_152418.1	678	tcacgcgtatcactctttcagtag	416500	-	see also 21896 line
49436	FLJ35779	NM_152408.1	827	ctggcgttccgtagtcaaaagc	416399	-	see also 9859 line
49437	FLJ35779	NM_152408.1	830	ggatccgagtgcnaaagcagc	416400	-	see also 9859 line
49438	FLJ35779	NM_152408.1	1032	atgagggtgtatgtgcattaaa	416403	-	see also 9859 line
49439	FLJ35782	NM_152631.1	1618	ggcgaccgactcttctatgtgc	419223	-	see also 21898 line
49440	FLJ35782	NM_152631.1	1305	gaccggagcgtccactctaaag	419213	-	see also 21898 line
49441	FLJ35794	NM_152617.2	665	acgtctgaaagggcaggtttatg	418899	-	see also 9903 line
49442	FLJ35794	NM_152617.2	1444	tgcctgtgtgtccgaatgtacc	418916	-	see also 9903 line
49443	FLJ35801	NM_153044.1	775	caggccctctctagagatgtagt	422054	-	see also 21900 line
49444	FLJ35801	NM_153044.1	777	ggcctctctctagagatgtagt	422055	-	see also 21900 line
49445	FLJ35802	NM_173538.1	1290	caagtgcaaatcattaccataa	425741	-	see also 21901 line
49446	FLJ35802	NM_173538.1	209	ggcggagtagtgcaaatctta	425706	-	see also 21901 line
49447	FLJ35821	NM_152589.1	898	tccttaactaccgactagtacc	418438	-	see also 21902 line
49448	FLJ35821	NM_152589.1	1151	atgggagaaatgcactatatac	418450	-	see also 21902 line
49449	FLJ35827	NM_153265.1	2680	ttcccgatcgccgactttcttg	422758	-	see also 9983 line
49450	FLJ35827	NM_153265.1	328	ggctagcggagcccaatctgaag	422734	-	see also 9983 line
49451	FLJ35834	NM_178827.3	1945	atccactcagccgcataatacc	431932	-	see also 21904 line
49452	FLJ35834	NM_178827.3	1965	acgggtgtctgaactgaattaac	431933	-	see also 21904 line
49453	FLJ35834	NM_178827.3	1969	gtgtgttaactgtcattaaccttc	431935	-	see also 21904 line
49454	FLJ35838	NM_173532.1	509	gtccgtgtgtccgaactgtatga	425573	-	see also 21905 line
49455	FLJ35838	NM_173532.1	1001	atcaagctgagctggactattgg	425591	-	see also 21905 line
49456	FLJ35843	NM_152591.1	736	gagattgaagaccctacatttga	418498	-	see also 21906 line
49457	FLJ35843	NM_152591.1	1516	atcaaccttcggcagattttgc	418507	-	see also 21906 line
49458	FLJ35866	NM_178828.3	1192	ccgaccaccgcgcatgacatca	431959	-	see also 21907 line
49459	FLJ35866	NM_178828.3	3941	tggccaccaccaggcagtttagg	431974	-	see also 21907 line

図46 (続き)

1314

49460	FLJ35880	NM_153264.2	656	ctctacacgtgaaggatgacatgg	422715	-	see also 21908 line
49461	FLJ35880	NM_153264.2	1498	ttgttaggaacccccaactctgagg	422729	-	see also 21908 line
49462	FLJ35894	NM_173616.1	911	ctgagataattgocccattttgc	426547	-	see also 10089 line
49463	FLJ35894	NM_173616.1	713	cacggttattcaggacagttatt	426543	-	see also 10089 line
49464	FLJ35961	NM_152372.2	2364	cagctcgcggaaccccaaaatca	415931	-	see also 21910 line
49465	FLJ35961	NM_152372.2	2369	cgccgaaccgcaaaatcaatttt	415933	-	see also 21910 line
49466	FLJ35961	NM_152372.2	2322	agcgcgtgagctacatctaatt	415929	-	see also 21910 line
49467	FLJ35989	NM_152597.3	1542	ttccaggtccatctctctataat	418654	-	see also 9898 line
49468	FLJ35989	NM_152597.3	1641	agcttotaagagctactatctca	418656	-	see also 21913 line
49469	FLJ36004	NM_152590.1	276	tggaaatgcctctggttactatc	418466	-	see also 21913 line
49470	FLJ36004	NM_152590.1	1187	ctctgattgaaccacacaataca	418483	-	see also 21913 line
49471	FLJ36046	NM_152612.2	1436	ttccgcaagtacgagttcgaaaag	418823	-	see also 21914 line
49472	FLJ36046	NM_152612.2	892	ttccgcaagcggaggttcaataa	418819	-	see also 21914 line
49473	FLJ36046	NM_152612.2	893	ttccgcaagcggaggttcaataa	418820	-	see also 21914 line
49474	FLJ36090	NM_153223.1	1689	cacgaggatcgaataaataagga	422310	-	see also 21915 line
49475	FLJ36090	NM_153223.1	1437	cagatgagactacgtttaccttgc	422301	-	see also 21915 line
49476	FLJ36102	NM_173590.1	703	gtgaaacttgagacatctctatt	426350	-	see also 21916 line
49477	FLJ36102	NM_173590.1	859	gtgcgcaaggtgaagagtttga	426352	-	see also 21916 line
49478	FLJ36144	NM_182561.1	364	atcatataatcgaattctcacg	434453	-	see also 21917 line
49479	FLJ36155	NM_147193.1	855	ctggtcacctgtgtaataagact	415089	-	see also 21918 line
49480	FLJ36155	NM_147193.1	1934	cggcctctctcacaataagta	415090	-	see also 21918 line
49481	FLJ36166	NM_182634.1	796	ttcgctgttttagctacaacg	434821	-	-
49482	FLJ36166	NM_182634.1	29	ttcatataggaacatacctaag	434820	-	see also 49481 line
49483	FLJ36175	NM_152528.1	1413	atgcatacgaatggtctattcata	417719	-	see also 21919 line
49484	FLJ36175	NM_152528.1	258	tactgttaagtgaactttactga	417689	-	see also 21919 line
49485	FLJ36180	NM_178556.3	827	agctcggtttcgaactctctga	431275	-	see also 21920 line
49486	FLJ36180	NM_178556.3	822	gtcaagctcggcttctgaatct	431273	-	see also 21920 line
49487	FLJ36198	NM_173801.2	220	tgccctgcaaatcgatcacatcac	428036	-	see also 21921 line
49488	FLJ36198	NM_173801.2	320	ttcaaacgagctgacttctacc	428040	-	see also 21921 line
49489	FLJ36335	NM_173568.1	1049	tgccggttatgtggtctctattg	426231	-	see also 21922 line
49490	FLJ36335	NM_173568.1	1050	ggcgggttatgtggtctctattg	426232	-	see also 21922 line
49491	FLJ36335	NM_173568.1	916	ggagccacgtgcaaaatcaattgc	426228	-	see also 21922 line
49492	FLJ36445	NM_153233.1	340	accacagctgggggcaaacactgt	422422	-	see also 21923 line
49493	FLJ36445	NM_153233.1	99	ctgcctctggggccctagacttgg	422421	-	see also 21923 line
49494	FLJ36525	NM_147129.2	1875	ggcccttcggagactttgtgtgt	415029	-	see also 21924 line
49495	FLJ36525	NM_147129.2	1873	cagcccttcggagactttgtgtgt	415028	-	see also 21924 line
49496	FLJ36561	NM_182520.1	737	ggaggcagagttaggaccattagg	434086	-	see also 21925 line
49497	FLJ36561	NM_182520.1	1031	atggcaagcccccacttcaagg	434089	-	see also 21925 line
49498	FLJ36576	NM_173522.1	366	ctggccggtggaacataacttcc	425431	-	see also 21926 line
49499	FLJ36576	NM_173522.1	405	ggcctctattgggcaactactca	425433	-	see also 21926 line
49500	FLJ36600	NM_182497.1	561	ccgggttatcagcgttacttcca	433958	-	see also 21927 line
49501	FLJ36600	NM_182497.1	337	ctctggcactgacttacttaccg	433957	-	see also 21927 line
49502	FLJ36600	NM_182497.1	708	gtcccttcggcagctgttagagg	433960	-	see also 21927 line
49503	FLJ36601	NM_173695.1	1060	gtgccatactgcagcaataaat	427667	-	see also 21928 line

図46 (続き)

1315

49504	FLJ36601	NM_173695.1	1197	tactgacatgtgatataaaaa	427675	-	see also 21928 line
49505	FLJ36664	NM_173690.1	1433	gtctaatatgttgctataaga	427495	-	see also 10111 line
49506	FLJ36664	NM_173690.1	1304	tgtaaacaggagattattatg	427491	-	see also 10111 line
49507	FLJ36664	NM_173690.1	649	tggtatgtaagaagtacgat	427459	-	see also 10111 line
49508	FLJ36674	NM_173622.1	303	cgctgtcagaatccacgtatca	426611	-	see also 21930 line
49509	FLJ36674	NM_173622.1	309	cagaatccacgattacaattgg	426614	-	see also 21930 line
49510	FLJ36760	NM_198550.1	926	tacgacggcagagaattattgga	439442	-	see also 21931 line
49511	FLJ36760	NM_198550.1	439	atccaatccggataactatcaga	439424	-	see also 21931 line
49512	FLJ36760	NM_152571.1	740	tgccgctcgcgagttcaagaac	418164	-	see also 21932 line
49513	FLJ36779	NM_152571.1	741	gcgcctcgcgagttcaagaacc	418165	-	see also 21932 line
49514	FLJ36779	NM_152571.1	653	tcgcgggaaggagtgctattgt	418163	-	see also 21932 line
49515	FLJ36812	NM_153260.1	628	tagagacgctaagcctaacaac	422680	-	see also 9979 line
49516	FLJ36812	NM_153260.1	789	aaccagattcgaagtatactga	422685	-	see also 9979 line
49517	FLJ36874	NM_152716.1	1809	ttcatggcaaacacgagaactct	420066	-	see also 21934 line
49518	FLJ36874	NM_152716.1	816	cacgggagcagtcataagatca	420050	-	see also 21934 line
49519	FLJ36878	NM_178518.2	1612	gcgggagcgtgcctcactatt	431059	-	see also 21935 line
49520	FLJ36878	NM_178518.2	774	ccacggagcagcgtattgatcc	431053	-	see also 21935 line
49521	FLJ36878	NM_178518.2	1613	ccgggagcgtgcctcactatt	431060	-	see also 21935 line
49522	FLJ36888	NM_178830.2	414	agccccccttcagggcgaaattcg	431981	-	see also 21936 line
49523	FLJ36888	NM_178830.2	866	ggcttgggacacgcgacaatgca	431983	-	see also 21936 line
49524	FLJ36980	NM_182598.1	166	ggcgacccgggagcactgacatgg	434594	-	see also 21937 line
49525	FLJ36980	NM_182598.1	410	tacgttacacattgagaaagttg	434599	-	see also 21937 line
49526	FLJ37045	NM_175889.2	773	cccggctgttaatatcactga	429499	-	-
49527	FLJ37099	NM_198459.1	1047	atctgtgttacccggtataaag	437892	-	see also 21938 line
49528	FLJ37099	NM_198459.1	927	tgattcatacagaataaacaaga	437889	-	see also 21938 line
49529	FLJ37118	NM_173507.1	1820	cagctcgtgtggagcttgatacc	425205	-	see also 21939 line
49530	FLJ37118	NM_173507.1	1076	gcctgaacgacctgaatcacttc	425202	-	see also 21939 line
49531	FLJ37131	NM_173687.1	524	gtccacaacggcacttaacctgc	427422	-	-
49532	FLJ37131	NM_173687.1	575	tgccaaaggagcgtcactttctgg	427423	-	see also 49531 line
49533	FLJ37306	NM_173497.1	397	gacaaaaacagcgtacatctatg	425158	-	see also 21940 line
49534	FLJ37306	NM_173497.1	287	agctgttagcccgagaagaagaag	425154	-	see also 21940 line
49535	FLJ37357	NM_173645.1	707	cacatctaacggtaaatgctgt	426950	-	see also 21941 line
49536	FLJ37357	NM_173645.1	1010	ctgtgcctgatttgtattttga	426957	-	see also 21941 line
49537	FLJ37396	NM_173671.1	1195	tcgcgcaccggcgtatagaatg	427290	-	see also 21942 line
49538	FLJ37396	NM_173671.1	1194	ctcgcgcacccggcgtatagaat	427289	-	see also 21942 line
49539	FLJ37538	NM_173564.2	1939	ggacacagatgggggtgcttttgc	426186	-	see also 21943 line
49540	FLJ37538	NM_173564.2	1105	accaagaccactccttggaat	426184	-	see also 21943 line
49541	FLJ37543	NM_173667.1	101	gtctgcgttaacttttcagaaaa	427242	-	see also 21944 line
49542	FLJ37543	NM_173667.1	96	atcgtctcgttaacttttca	427241	-	see also 21944 line
49543	FLJ37549	NM_152605.1	1048	cagagagccactcttagtcaaca	418741	-	see also 21945 line
49544	FLJ37549	NM_152605.1	1212	ttgattttcaactttaacacc	418744	-	see also 21945 line
49545	FLJ37587	NM_173597.1	372	tcgaaagtgccttcagctaatta	426417	-	see also 21946 line
49546	FLJ37587	NM_173597.1	340	gtcaacagtcgagatagatgaagg	426416	-	see also 21946 line
49547	FLJ37659	NM_173698.1	743	agctctacgcatgaatcagaatc	427708	-	see also 21947 line

図46 (続き)

1316

49548	FLJ37659	NM_173698.1	716	aagaaacggttcatacaaatcatc	427705	-	see also 21947 line
49549	FLJ37673	NM_182591.1	278	occccaagaggtgacttactct	434561	-	see also 21948 line
49550	FLJ37673	NM_182591.1	420	atgtctcaagaccagacataaaa	434566	-	see also 21948 line
49551	FLJ37794	NM_173588.1	1336	gaacacacagcttaagattaggg	426316	-	see also 21949 line
49552	FLJ37794	NM_173588.1	1332	gtctgacgacacagcttaagatt	426314	-	see also 21949 line
49553	FLJ37818	NM_175916.2	684	tacacccacagcgggtgataaagc	429564	-	see also 21950 line
49554	FLJ37818	NM_175916.2	383	ctggtctaaagccagtttagatt	429558	-	see also 21950 line
49555	FLJ37927	NM_152623.1	295	cgccacagctactgattcagttg	419075	-	see also 21951 line
49556	FLJ37927	NM_152623.1	296	gccaaagctactgattcagttg	419076	-	see also 21951 line
49557	FLJ37927	NM_152623.1	299	aacgtactgattcagttg	419077	-	see also 21951 line
49558	FLJ37940	NM_178534.2	431	tcacagagagccaggaacagttg	431115	-	-
49559	FLJ37953	NM_152382.1	417	gtctcgagatgccagttattta	416010	-	see also 21952 line
49560	FLJ37953	NM_152382.1	420	ctcgagatgccagttatttat	416012	-	see also 21952 line
49561	FLJ38101	NM_152261.3	390	aacggtattgacgaatacaata	422700	-	see also 21953 line
49562	FLJ38101	NM_152261.3	446	aacctagccctaatgtaataga	422704	-	see also 21953 line
49563	FLJ38101	NM_152261.3	315	cactctaagctgctgtttg	422699	-	see also 21953 line
49564	FLJ38159	NM_152723.1	325	aggagagagagggctgtatgctcg	420094	-	see also 21954 line
49565	FLJ38159	NM_152723.1	554	tgctcgccttcaagatgaatac	420098	-	see also 21954 line
49566	FLJ38190	NM_152335.1	1029	aacagctacaatgactcagttta	415697	-	see also 21955 line
49567	FLJ38190	NM_152335.1	916	cggcagccgcttcaaatggttg	415696	-	see also 21955 line
49568	FLJ38288	NM_173632.2	545	gtccacaatcacgtttgcaaca	426901	-	see also 21956 line
49569	FLJ38288	NM_173632.2	553	taccgtttagcaaaaacactca	426902	-	see also 21956 line
49570	FLJ38335	NM_153228.1	921	agcgtcaatgacgtgtgtaaac	422338	-	see also 21957 line
49571	FLJ38335	NM_153228.1	1069	ttcaagctcgcgttcaaatag	422341	-	see also 21957 line
49572	FLJ38377	NM_152698.1	1512	tggggacgcgaactgtccatg	419888	-	see also 21958 line
49573	FLJ38377	NM_152698.1	628	gtgttttgggaacctatccaca	419884	-	see also 21958 line
49574	FLJ38426	NM_173611.1	669	ccgcgcgacgaatgtaataaac	426515	-	see also 21960 line
49575	FLJ38426	NM_173611.1	883	aagaccgatgtccaatataaa	426523	-	see also 21960 line
49576	FLJ38464	NM_173689.1	614	acctggaggtcctgaatggttc	427438	-	-
49577	FLJ38482	NM_152681.1	280	cacttagaccgccgattccatcc	419698	-	see also 21961 line
49578	FLJ38482	NM_152681.1	539	acgagagctataactgtatctac	419709	-	see also 21961 line
49579	FLJ38482	NM_152681.1	580	aagagacttgcgttgatgataca	419712	-	see also 21961 line
49580	FLJ38564	NM_152579.1	667	ttgtatagaggattcgttttc	418241	-	see also 21962 line
49581	FLJ38564	NM_152579.1	673	taggaattcgaattttcttat	418242	-	see also 21962 line
49582	FLJ38568	NM_153252.1	1758	tgggaggtacgctatattgaaca	422657	-	see also 21963 line
49583	FLJ38568	NM_153252.1	505	agcgcgaacactcagctacttac	422609	-	see also 21963 line
49584	FLJ38607	NM_152654.1	392	gccatagcctccgaatcatct	419517	-	see also 21964 line
49585	FLJ38607	NM_152654.1	549	cccgctcagcgggtgaagatccc	419520	-	see also 21964 line
49586	FLJ38607	NM_152654.1	552	gtcgaaggtgaagatccacc	419521	-	see also 21964 line
49587	FLJ38608	NM_153215.1	175	tcacatcagcgaactacataggg	422205	-	-
49588	FLJ38615	NM_173528.1	773	ccccgtcccgcaaatgtaaaa	425515	-	see also 21965 line
49589	FLJ38615	NM_173528.1	588	cactgtcaagctccttagatg	425509	-	see also 21965 line
49590	FLJ38615	NM_173528.1	633	aacagggagatttgacacaaaa	425510	-	see also 21965 line
49591	FLJ38628	NM_152267.2	511	gggaatagaggagattcaagg	415229	-	see also 9823 line

1317

図46 (続き)

49592	FLJ38716	NM_152367.1	391	cagcaaccaagaacattagatttc	415832	-	see also 21967 line
49593	FLJ38716	NM_152367.1	476	ctcgtcaagtcctccaataaaagg	415836	-	see also 21967 line
49594	FLJ38723	NM_173805.2	149	cactgagctacgccttcaacagg	428053	-	see also 21968 line
49595	FLJ38723	NM_173805.2	79	tccaagtgtactagattgacaag	428052	-	see also 21968 line
49596	FLJ38725	NM_153218.1	1166	cagactgtataccagatagttttt	422245	-	see also 21969 line
49597	FLJ38725	NM_153218.1	1556	atgtccgagatggccttaatttt	422257	-	see also 21969 line
49598	FLJ38736	NM_182758.1	2725	tgcgagagtcagatactatagt	435094	-	see also 21970 line
49599	FLJ38736	NM_182758.1	3058	aagataccocgtgaatagtcaccc	435109	-	see also 21970 line
49600	FLJ38763	NM_152375.1	1629	ggcggtaaacgccttctctacc	415958	-	see also 21971 line
49601	FLJ38753	NM_152375.1	1497	cacgggtgcgtgccaaaggaaatct	415955	-	see also 21971 line
49602	FLJ38771	NM_173511.1	1156	tccttctaccccgagatttaca	425262	-	see also 21972 line
49603	FLJ38771	NM_173511.1	1160	tctaccccgagatttacaactca	425263	-	see also 21972 line
49604	FLJ38773	NM_178528.2	653	agctcggagatgaattggttagg	431072	-	see also 21973 line
49605	FLJ38773	NM_178528.2	652	aagctcggagatgaattggttagg	431071	-	see also 21973 line
49606	FLJ38792	NM_178520.2	624	atgtatcggcagactgatttat	431066	-	see also 21974 line
49607	FLJ38792	NM_178520.2	766	ctgcctctgtgagatgaagataa	431068	-	see also 21974 line
49608	FLJ38819	NM_145865.1	99	aggtaccacgcgagatctaaat	414936	-	see also 21975 line
49609	FLJ38819	NM_145865.1	104	accaagcgagatctaaatcttct	414939	-	see also 21975 line
49610	FLJ38844	NM_152361.1	361	tccatgattccggctcagattact	415807	-	see also 21976 line
49611	FLJ38944	NM_152361.1	362	ctccatgattccggctcagattact	415806	-	see also 21976 line
49612	FLJ38968	NM_152316.1	189	gtccagcttcgtactacaatga	415552	-	see also 21977 line
49613	FLJ38968	NM_152316.1	213	tgccataaacctactactactcg	415554	-	see also 21977 line
49614	FLJ38973	NM_153689.3	557	acgggttcccaatagttattat	423526	-	see also 21978 line
49615	FLJ38973	NM_153689.3	556	caccgggtcccaatagttattat	423525	-	see also 21978 line
49616	FLJ38984	NM_152374.1	535	ggacccacacctcctggattatgt	415949	-	see also 21979 line
49617	FLJ38984	NM_152374.1	935	ggctgtgagcagctacaaagtc	415950	-	see also 21979 line
49618	FLJ39106	NM_173629.1	360	ggcgcaatgactgggtctatgtg	426684	-	see also 21981 line
49619	FLJ39106	NM_173629.1	468	cgcccaattcctccattgtttatc	426690	-	see also 21981 line
49620	FLJ39237	NM_198571.1	1115	cacttggcgctatcacaacatcg	439709	-	see also 21982 line
49621	FLJ39237	NM_198571.1	1302	ctggtagagggttatactgaaca	439711	-	see also 21982 line
49622	FLJ39267	NM_173550.2	1063	gaccttttaaggagacaaacaag	425870	-	see also 21983 line
49623	FLJ39267	NM_173550.2	1689	ggcgctactccttgacagattacc	425885	-	see also 21983 line
49624	FLJ39370	NM_152400.1	341	acgaatagtggaaacagtaataag	416281	-	see also 9851 line
49625	FLJ39378	NM_178314.2	1131	gggcatacagcagctgactcttta	430699	-	see also 21985 line
49626	FLJ39378	NM_178314.2	1176	agcggagactgataatagatgaac	430702	-	see also 21985 line
49627	FLJ39415	NM_173681.1	771	tccttcgctgctggattacaaat	427336	-	see also 21986 line
49628	FLJ39415	NM_173681.1	834	ggcgttccacagcaagatgacc	427338	-	see also 21986 line
49629	FLJ39415	NM_173681.1	994	ctggagacatccaggtgttttaca	427339	-	see also 21986 line
49630	FLJ39421	NM_178519.2	1152	tccttcgcaacgcttttaataag	431064	-	-
49631	FLJ39421	NM_178519.2	1149	ttctccctgcgcagcgtttaatc	431063	-	see also 49630 line
49632	FLJ39421	NM_178519.2	1153	ccctgcgcagcgtttaataaagg	431065	-	see also 49630 line
49633	FLJ39426	NM_173609.1	889	gagataaaacaaaggttaagtag	426492	-	see also 21987 line
49634	FLJ39426	NM_173609.1	724	ctctggctacaaaaaagaataga	426491	-	see also 21987 line
49635	FLJ39441	NM_194285.1	399	tgtttaacaatgggattcctattg	436321	-	see also 10307 line

図46 (続き)

1318

49636	FLJ39441	NM_194285.1	1274	ttgctgcaccacagtagttot	436335	-	see also 10307 line
49637	FLJ39485	NM_175920.2	833	ctcctgtagggagcgttaagtgt	429573	-	-
49638	FLJ39485	NM_175920.2	858	cagctccgagcagccactttgt	429574	-	see also 49637 line
49639	FLJ39553	NM_173549.1	563	gagccgagctctctaaagaaa	425846	-	see also 21989 line
49640	FLJ39553	NM_173549.1	319	aagccgtctctcttaaaaaagc	425842	-	see also 21989 line
49641	FLJ39553	NM_173549.1	559	gacagggccgagctctctaaag	425845	-	see also 21989 line
49642	FLJ39575	NM_182597.1	462	agccgagtcgagcctctgtcc	434585	-	see also 21990 line
49643	FLJ39575	NM_182597.1	595	ttcgtgattcttaagtcca	434589	-	see also 21990 line
49644	FLJ39576	NM_182592.1	266	atcggttacccagcacaatttt	434571	-	see also 21991 line
49645	FLJ39576	NM_182592.1	267	tgggttacccagcacaatttt	434572	-	see also 21991 line
49646	FLJ39576	NM_182592.1	269	gggttacccagcacaatttttc	434574	-	see also 21991 line
49647	FLJ39582	NM_178315.2	389	gacagtatcgcaatacagaatt	430708	-	see also 21992 line
49648	FLJ39582	NM_178315.2	277	cacgaaagaccccgacaaaaacc	430705	-	see also 21992 line
49649	FLJ39582	NM_178315.2	502	taogctgagctctgtgttttc	428048	-	-
49650	FLJ39599	NM_173803.2	526	tggccacatctctgttttc	428049	-	see also 49649 line
49651	FLJ39616	NM_016534.2	152	gtcgtctctccgacatactca	358049	-	-
49652	FLJ39630	NM_173688.1	403	aaggacaccgcatatgacatt	427429	-	see also 21993 line
49653	FLJ39630	NM_173688.1	298	cagtacagaccctcgatacataat	427426	-	see also 21993 line
49654	FLJ39647	NM_173625.2	229	ttcaaaacccgactatagctacc	426623	-	see also 21994 line
49655	FLJ39647	NM_173625.2	590	atggagtatgtgtcacaattc	426631	-	see also 21994 line
49656	FLJ39653	NM_152684.1	383	ctgcctgcgcgtattttgttc	419791	-	see also 21995 line
49657	FLJ39653	NM_152684.1	379	ggccctgcgcgtccgtattttg	419789	-	see also 21995 line
49658	FLJ39660	NM_173646.1	440	atcgaatgtccgtgtgaaagc	426984	-	see also 21996 line
49659	FLJ39660	NM_173646.1	269	cactggaggtgacctataatg	426981	-	see also 21996 line
49660	FLJ39743	NM_182562.1	399	gagcggctgttggttttacaca	434456	-	see also 21997 line
49661	FLJ39743	NM_182562.1	652	tgcggagactctcagaatgaca	434459	-	see also 21997 line
49662	FLJ39821	NM_173700.1	807	ctcactcaagctgcataccattg	427735	-	see also 21998 line
49663	FLJ39821	NM_173700.1	756	ctccaccgagaataaggttta	427733	-	see also 21998 line
49664	FLJ39827	NM_152424.1	2161	gccggagaggttcgttagaga	416611	-	see also 21999 line
49665	FLJ39827	NM_152424.1	323	ctgggaggtacccgtgaacaaaca	416595	-	see also 21999 line
49666	FLJ39873	NM_173799.2	507	tctgtgtgtcgtgtgactaga	427986	-	see also 22000 line
49667	FLJ39873	NM_173799.2	336	acgatacaggggagctacttcgc	427983	-	see also 22000 line
49668	FLJ40089	NM_182496.1	596	tgtctgagtagctgttgcaacc	433936	-	see also 22001 line
49669	FLJ40089	NM_182496.1	1585	gacggcctcaacccaattcaaaa	433949	-	see also 22001 line
49670	FLJ40126	NM_173599.1	366	cacaaggcatggactcatatag	426432	-	see also 22002 line
49671	FLJ40126	NM_173599.1	972	gtgtagtcactgttctgataaa	426444	-	see also 22002 line
49672	FLJ40160	NM_173484.2	457	gccgttagagagcccaatttc	424994	-	see also 22003 line
49673	FLJ40160	NM_173484.2	458	cccgtagagagcccaatttc	424995	-	see also 22003 line
49674	FLJ40160	NM_173484.2	492	ggcccttcgggtgggaattctagg	424998	-	see also 22003 line
49675	FLJ40172	NM_173649.1	239	cagttagagcaacctacaatttt	427058	-	see also 22004 line
49676	FLJ40172	NM_173649.1	226	tccttattaatccagttago	427057	-	see also 22004 line
49677	FLJ40182	NM_173696.1	779	tgtcgtgtgaccattctgaaag	427694	-	see also 22005 line
49678	FLJ40182	NM_173696.1	543	tggcgtctcgtggaacacata	427686	-	see also 22005 line
49679	FLJ40201	NM_152607.1	215	cccactactccagcgttattot	418746	-	see also 22006 line

図46 (続き)

1319

49680	FLJ40201	NM_152607.1	1156	gacaggcggcagcagatagatgc	418752	-	see also 22006 line
49681	FLJ40235	NM_173635.1	739	atctatgcgggaattgtaattgc	426919	-	see also 22008 line
49682	FLJ40235	NM_173635.1	913	cccgtagtcgccacattttctga	426926	-	see also 22008 line
49683	FLJ40243	NM_173489.2	3601	aggcacatcaccatcacatgc	425098	-	see also 22009 line
49684	FLJ40243	NM_173489.2	4584	accgagcggtagcttctacttc	425115	-	see also 22009 line
49685	FLJ40249	NM_152425.1	1953	gccgcgacagtcctcatcaaggt	416623	-	-
49686	FLJ40288	NM_173682.1	799	gccgagaccctcgtctactact	427349	-	see also 22010 line
49687	FLJ40288	NM_173682.1	723	cccacagctcttattcttctact	427347	-	see also 22010 line
49688	FLJ40288	NM_173682.1	1013	cagagtaagtcgctgaataatgg	427359	-	see also 22010 line
49689	FLJ40296	NM_198441.1	815	ctcagcgggtttacaagtcattc	437772	-	see also 22011 line
49690	FLJ40296	NM_198441.1	809	gggtgactcagcgggtttacaag	437771	-	see also 22011 line
49691	FLJ40296	NM_198441.1	264	cgctcactggccctaatcaaacgc	437769	-	see also 22011 line
49692	FLJ40319	NM_182564.1	337	gtcctaaagcaatgcactaatcc	434467	-	-
49693	FLJ40319	NM_182564.1	389	aggcaagaggagtgtaaaaatcc	434469	-	see also 49692 line
49694	FLJ40319	NM_182564.1	356	atccaaaattaaacgaaacaaa	434468	-	see also 49692 line
49695	FLJ40321	NM_198479.1	848	ctcagggccagggcccaattatag	438455	-	see also 22012 line
49696	FLJ40321	NM_198479.1	1251	gagggtagctctgtgaatgaaa	438459	-	see also 22012 line
49697	FLJ40321	NM_198479.1	1252	agggtggctctgtgaatgaaaat	438460	-	see also 22012 line
49698	FLJ40343	NM_182579.1	496	agcggcatccacattggagatga	434507	-	-
49699	FLJ40343	NM_182579.1	447	cgcagttgtccagggaactatcc	434506	-	see also 49698 line
49700	FLJ40343	NM_182579.1	249	cccctacagctccatcacacaga	434504	-	see also 49698 line
49701	FLJ40365	NM_173482.1	959	tgcgccttggcctaaacgaagc	424985	-	see also 22013 line
49702	FLJ40365	NM_173482.1	1164	tcctcgggtgtacgaataataac	424988	-	see also 22013 line
49703	FLJ40411	NM_198852.1	505	acctgatacacccggtcaattca	439949	-	see also 22014 line
49704	FLJ40411	NM_198852.1	320	gggaatagaatttgtgaataaa	439941	-	see also 22014 line
49705	FLJ40457	NM_173628.1	661	ctcgaaatttgacccgtgatttg	426650	-	see also 22015 line
49706	FLJ40457	NM_173628.1	578	ctggtgacccgttatctatgatga	426649	-	see also 22015 line
49707	FLJ40504	NM_173624.1	506	ttcgggtttagccaggttagatt	426618	-	see also 22016 line
49708	FLJ40504	NM_173624.1	508	cgggtcttagccaggttagattta	426619	-	see also 22016 line
49709	FLJ40542	NM_178503.2	354	ctcgccttcccggtcagaattg	430926	-	see also 22017 line
49710	FLJ40542	NM_178503.2	335	gccgtgccacgcaatttatctcc	430925	-	see also 22017 line
49711	FLJ40597	NM_152615.1	1176	taogttgtgcgagctactactgg	418888	-	see also 22018 line
49712	FLJ40597	NM_152615.1	225	atgaaatagggtgcaattacttt	418858	-	see also 22018 line
49713	FLJ40629	NM_152515.2	573	ttgctcgatatttaacagaaac	417405	-	see also 22019 line
49714	FLJ40629	NM_152515.2	570	aaactgctcgatattcttaacaga	417404	-	see also 22019 line
49715	FLJ40852	NM_173677.1	480	aagcttcaactattgggaaaaatc	427327	-	see also 22020 line
49716	FLJ40852	NM_173677.1	432	caggttgatcatgttctgtatga	427325	-	see also 22020 line
49717	FLJ40869	NM_182625.1	344	agccaattgaattgttaagact	434727	-	see also 22021 line
49718	FLJ40869	NM_182625.1	341	taacagccaattgaattgttaag	434726	-	see also 22021 line
49719	FLJ40873	NM_152665.1	500	cacgggtataaactaattgtgatt	419548	-	see also 22022 line
49720	FLJ40873	NM_152665.1	359	ctgtggtcacccgtcaatcatatt	419541	-	see also 22022 line
49721	FLJ40906	NM_173640.1	442	aggcctgctcaagccaataacttc	426931	-	see also 22023 line
49722	FLJ40906	NM_173640.1	299	gtgtcaccaccaagctgttcatcc	426930	-	see also 22023 line
49723	FLJ40919	NM_182508.1	177	ggcaacagcgtacttttaacagc	434017	-	see also 10266 line

図46 (続き)

1320

49724	FLJ40919	NM_182508.1	183	agagctacttttacagcattatg	434018	-	see also 10266 line
49725	FLJ40919	NM_182508.1	438	ttctacctaggcccaagtaaa	434028	-	see also 10266 line
49726	FLJ41131	NM_198476.1	515	caaggccagggagagatgtct	438437	-	see also 22025 line
49727	FLJ41238	NM_198485.1	971	ttgcccgtggagattgtttt	438525	-	see also 22026 line
49728	FLJ41238	NM_198485.1	972	tgcccgtggagattgtttt	438526	-	see also 22026 line
49729	FLJ41238	NM_198485.1	271	gaaccgagtcacacagatttc	438509	-	see also 22026 line
49730	FLJ41410	NM_198581.1	116	gaagtggcttcgaagaaatc	43742	-	see also 10347 line
49731	FLJ41410	NM_198581.1	1240	aaccagctgagtttacgataa	439771	-	see also 10347 line
49732	FLJ41410	NM_198581.1	162	accataaaggagcctaattgt	43749	-	see also 10347 line
49733	FLJ42117	NM_198463.1	633	accacgaagctgcaactaaga	438022	-	see also 22028 line
49734	FLJ42117	NM_198463.1	635	caagaagctgcaactaataaga	438023	-	see also 22028 line
49735	FLJ42461	NM_198501.1	205	ccctgagattgcccacaaattct	438737	-	see also 22029 line
49736	FLJ42461	NM_198501.1	423	gtcctagcagagaaattcctct	438740	-	see also 22029 line
49737	FLJ42654	NM_198447.1	258	tggacactcctgtacttgatt	437822	-	see also 22030 line
49738	FLJ42654	NM_198447.1	196	atcacgaatggcagaagattgg	437821	-	see also 22030 line
49739	FLJ42925	NM_198511.1	1008	caaggctgtgtctatttca	438842	-	see also 22031 line
49740	FLJ42925	NM_198511.1	323	cgcaatcgcttcgactactacc	438836	-	see also 22031 line
49741	FLJ42925	NM_198511.1	955	aacattccctcgatgtattct	438841	-	see also 22031 line
49742	FLJ43070	NM_152286.2	3893	ttcacggacctggcgaattgt	415360	-	see also 22032 line
49743	FLJ43070	NM_152286.2	3897	cggaccttgcgaattgtgtct	415362	-	see also 22032 line
49744	FLJ43654	NM_198562.1	160	aagacatgtcgttttaggaga	439518	-	see also 22034 line
49745	FLJ43654	NM_198562.1	922	atgacgtctttaataaccacaa	439528	-	see also 22034 line
49746	FLJ43654	NM_198562.1	624	ctcaacatgccactcaacaaatt	439524	-	see also 22034 line
49747	FLJ43842	NM_198440.1	754	tggcggtggccatactactact	437766	-	see also 22035 line
49748	FLJ43842	NM_198440.1	562	gtcgtgtctccagcttagttatg	437760	-	see also 22035 line
49749	FLJ44112	NM_198520.1	2146	agcatctaaatcgatgtact	439039	-	see also 22036 line
49750	FLJ44112	NM_198520.1	2662	ttgacgcaagctgtaattctgg	439051	-	see also 22036 line
49751	FLJ44186	NM_198508.1	973	ccgaggagcactgttactacttc	438795	-	see also 22037 line
49752	FLJ44216	NM_198567.1	532	atgcagtagactgtatgtatt	439669	-	see also 10346 line
49753	FLJ44216	NM_198567.1	2706	cagacttggagcgaattggtga	439682	-	see also 10346 line
49754	FLJ44299	NM_198491.1	558	gtaccctcggatcagcaaatga	438548	-	see also 22039 line
49755	FLJ44299	NM_198491.1	560	caacctcggatcagcaaatgac	438549	-	see also 22039 line
49756	FLJ44691	NM_198506.1	864	aaggtgtgtgacctgctatagt	438751	-	see also 22040 line
49757	FLJ44691	NM_198506.1	1089	agctcgcagtttaattatacagt	438760	-	see also 22040 line
49758	FLJ44968	NM_198537.1	1882	cagtggttgatgcacgtttttc	439296	-	-
49759	FLJ45235	NM_198537.1	1840	aaactcaggcagagataaaca	439295	-	see also 49758 line
49760	FLJ45235	NM_198493.1	662	ctaagtcaatgccgtcaaaaaa	438570	-	see also 22041 line
49761	FLJ45235	NM_198493.1	389	gggtacacactttacattgttc	438564	-	see also 22041 line
49762	FLJ45246	NM_198484.1	702	tccgataaactcaaaccttatt	438501	-	see also 22042 line
49763	FLJ45246	NM_198484.1	701	ttccgataaactcaaaccttat	438500	-	see also 22042 line
49764	FLJ45246	NM_198484.1	1042	ttgtaggctactttttatgtcc	438505	-	see also 22042 line
49765	FLJ45273	NM_198461.1	1548	atcacgcgtgaagatgaatgtcg	437959	-	see also 22043 line
49766	FLJ45273	NM_198461.1	1017	ccccgctatggccttatgaag	437946	-	see also 22043 line
49767	FLJ45273	NM_198461.1	1523	tgccatcgcagcgattattgtca	437955	-	see also 22043 line

図46 (続き)

1321

49768	FLJ45459	NM_198446.1	390	cgccagagcgccgtttccaaagg	437820	-	-	-
49769	FLJ45645	NM_198557.1	1085	aagttcgagataccctgaagtc	439499	-	-	see also 22044 line
49770	FLJ45645	NM_198557.1	1105	tcctgattaaaccttataggaca	439501	-	-	see also 22044 line
49771	FLJ45651	NM_198442.1	505	agtaatacaccggtctatacagg	437773	-	-	see also 22045 line
49772	FLJ45651	NM_198442.1	1064	cacacacctggaggagttttc	437776	-	-	see also 22045 line
49773	FLJ45778	NM_198532.1	637	gagcggggagccgctctattacc	439257	-	-	see also 22046 line
49774	FLJ45778	NM_198532.1	1441	ctggctgtgttcggaatacctgg	439258	-	-	see also 22046 line
49775	FLJ45909	NM_198445.1	1464	agctggagcagtaggtttcttctg	437818	-	-	see also 22047 line
49776	FLJ45909	NM_198445.1	891	gggtgcgcactctctgaattct	437814	-	-	see also 22047 line
49777	FLJ46072	NM_198488.1	1856	tccaactacaggatttcgagc	438533	-	-	see also 22048 line
49778	FLJ46072	NM_198488.1	922	ggcggttgccctctacttgagc	438529	-	-	see also 22048 line
49779	FLJ46072	NM_198488.1	2688	aagatcctggcagcttcaaaag	438534	-	-	see also 22048 line
49780	FLJ46154	NM_198462.1	3228	atccgatatgttgagtggtatag	438008	-	-	see also 22049 line
49781	FLJ46154	NM_198462.1	2163	ttgtatcagcagttcgatataca	437985	-	-	see also 22049 line
49782	FLJ46156	NM_198499.1	335	atcctgtatgttggtattatca	438615	-	-	see also 22050 line
49783	FLJ46156	NM_198499.1	2271	gactagcgtttacagtcattatg	438671	-	-	see also 22050 line
49784	FLJ46156	NM_198499.1	325	ttcttagggtatcctctgtatagt	438614	-	-	see also 22050 line
49785	FLJ46247	NM_198529.1	2029	tccttagagccggttatagtga	439189	-	-	see also 22051 line
49786	FLJ46247	NM_198529.1	2317	aaccagtcctcgtaataagcatga	439195	-	-	see also 22051 line
49787	FLJ46361	NM_198577.1	2085	acatataactcaatattccaag	439722	-	-	-
49788	FLJ46361	NM_198577.1	2102	tccaagttagagttatcacagt	439724	-	-	see also 49787 line
49789	FLJ46361	NM_198577.1	2092	aactataattccaagtttgaag	439723	-	-	see also 49787 line
49790	FLJ46603	NM_198530.1	1856	caattggcccatcgtttgtatca	439234	-	-	-
49791	FLJ46909	NM_198469.1	409	tccccaagggtctattacgattgt	438401	-	-	see also 22052 line
49792	FLJ46909	NM_198469.1	408	atcccaagggtctattacgattgt	438400	-	-	see also 22052 line
49793	FLJ46909	NM_198469.1	206	cccgagcggagcccaatacagag	438396	-	-	see also 22052 line
49794	FLJ90005	NM_153341.1	213	tacgagttcggaccacacacact	422808	-	-	see also 22053 line
49795	FLJ90005	NM_153341.1	291	caagatgcagtcacatactatc	422812	-	-	see also 22053 line
49796	FLJ90013	NM_153365.1	253	gagggtactctcttgaaacataat	423076	-	-	see also 9993 line
49797	FLJ90013	NM_153365.1	1618	aggacataacgcaggacacattct	423108	-	-	see also 9993 line
49798	FLJ90022	NM_153690.3	723	aagcgctggcgaatttaaacg	423543	-	-	see also 22055 line
49799	FLJ90022	NM_153690.3	332	cactagcggaggaccacacttaca	423540	-	-	see also 22055 line
49800	FLJ90024	NM_153342.1	456	gtggcactcttggttttaacac	422838	-	-	see also 22056 line
49801	FLJ90119	NM_153347.1	660	atcgccctcaacaattctgttt	422931	-	-	see also 22057 line
49802	FLJ90119	NM_153347.1	625	gtggcactctctctttatcatc	422928	-	-	see also 22057 line
49803	FLJ90166	NM_153360.1	1412	tggagtagcagcttttcaagatg	423054	-	-	see also 22058 line
49804	FLJ90166	NM_153360.1	1409	atgtggagtagcagcttttcaag	423053	-	-	see also 22058 line
49805	FLJ90166	NM_153360.1	334	atcctgcctccacgccttaattag	423050	-	-	see also 22058 line
49806	FLJ90406	NM_173670.1	995	gagcgtttgactctgaagttttg	427264	-	-	see also 22059 line
49807	FLJ90406	NM_173670.1	1115	ctcatgagccagaggaattttc	427267	-	-	see also 22059 line
49808	FLJ90492	NM_181783.1	1020	ctctacaaggcaactaactttt	433251	-	-	see also 22060 line
49809	FLJ90492	NM_181783.1	402	accgtcccttaacagtattgaca	433228	-	-	see also 22060 line
49810	FLJ90575	NM_153376.1	724	ctccagcgtctacaaccttacc	423159	-	-	see also 22061 line
49811	FLJ90575	NM_153376.1	1367	gagaacgcgtgcaaaaagacaca	423165	-	-	see also 22061 line

図46 (続き)

1322

49812	FLJ90575	NM_153376.1	1593	accacgtagcctcaattgtcc	423167	-	see also 22061 line
49813	FLJ90579	NM_173591.1	1145	atgccatcagctacacatatata	426377	-	see also 22062 line
49814	FLJ90579	NM_173591.1	466	gcccaacatggcactgaatgt	426358	-	see also 22062 line
49815	FLJ90583	NM_173828.3	1714	aggtccgggtgacacacattga	428440	-	see also 22063 line
49816	FLJ90583	NM_173828.3	2065	agcaaacacgacactctgatca	428441	-	see also 22063 line
49817	FLJ90586	NM_153345.1	727	aggcaatgacccggacacatgaag	428850	-	see also 22064 line
49818	FLJ90586	NM_153345.1	593	gacatacccccgtgtcttatt	427846	-	see also 22064 line
49819	FLJ90650	NM_173800.2	448	gtctactggctcgtgaacagg	427997	-	see also 22065 line
49820	FLJ90650	NM_173800.2	1399	tggccggtatgtcgaacagact	428022	-	see also 22065 line
49821	FLJ90652	NM_173618.1	118	acggcggaagtggactacaaaaa	426578	-	see also 10091 line
49822	FLJ90652	NM_173618.1	117	gacggcggaagtggactacaaaa	426577	-	see also 10091 line
49823	FLJ90805	NM_173633.1	1366	atgggaacgtgacgtttatcagc	426915	-	see also 10101 line
49824	FLJ90805	NM_173633.1	708	tgcattctactggggtcaatatgc	426911	-	see also 10101 line
49825	FLJ90806	NM_182513.1	428	aactttaccaccaaagttagtaa	434047	-	see also 22068 line
49826	FLJ90806	NM_182513.1	412	gccgtgaagtggtcacttta	434045	-	see also 22068 line
49827	FLJ90811	NM_153339.1	495	cccgacagactgctggatatgg	422793	-	see also 22069 line
49828	FLJ90811	NM_153339.1	843	agcccgagccacggcttatcc	422795	-	see also 22069 line
49829	FLJ90834	NM_173578.1	958	acctacaaacgtccctataaac	426294	-	-
49830	FLJ90834	NM_173578.1	962	tacaaacgtccctataaac	426295	-	see also 49829 line
49831	FLJ90834	NM_173578.1	428	atcctgtactatgtatata	426293	-	see also 22070 line
49832	FLN29	NM_006700.1	487	gaggttgccatcctctctatgc	336122	-	see also 22070 line
49833	FLN29	NM_006700.1	1405	ccagcgccacccattacaatat	336142	-	see also 22070 line
49834	FLNC	NM_001458.1	4586	tacacgttagcagctcaagatgc	330267	-	see also 22071 line
49835	FLNC	NM_001458.1	2275	ctcctggagagcgctaaacgtgc	330256	-	see also 22071 line
49836	FNBP1	NM_015033.1	1131	aggttatggcgttctacaaaa	347011	-	see also 22072 line
49837	FNBP1	NM_015033.1	1871	aggaacgatttccgtagtgaag	347027	-	see also 22072 line
49838	FNBP4	NM_015308.1	1352	atgggaatcgtaggttatgtct	351364	-	see also 6321 line
49839	FNBP4	NM_015308.1	1642	tccgagttctaggcaataatag	351370	-	see also 6321 line
49840	FRBZ1	NM_194314.1	1809	aagttcgtatagacttacttac	436780	-	see also 10308 line
49841	FRBZ1	NM_194314.1	1886	tccgtcatgatcacttacaag	436784	-	see also 10308 line
49842	FRCP1	NM_022823.1	919	ggcgtgttctgcagtcagtaga	384251	-	see also 22075 line
49843	FRCP1	NM_022823.1	587	tctgtattggctactcatttcc	384247	-	see also 22075 line
49844	FRCP2	NM_153756.1	616	ggccttctccgcagcaagatatg	423893	-	see also 22076 line
49845	FRCP2	NM_153756.1	617	ggcttctccgcagcaagatatga	423894	-	see also 22076 line
49846	FS	NM_021996.3	1180	acctgaaccgtacttacttca	381677	-	see also 22077 line
49847	FS	NM_021996.3	1286	tctacactggacaaagatatca	381679	-	see also 22077 line
49848	FTSJ3	NM_017647.2	96	aagagccgagcagacaagtta	360059	-	see also 7077 line
49849	FTSJ3	NM_017647.2	103	gacgagacaaagtttactcttg	360063	-	see also 7077 line
49850	FTSJ3	NM_017647.2	2132	ctcttcaacgggtacacattta	360092	-	see also 7077 line
49851	FZRI	NM_016263.2	196	agccaactggagcgtgaactcc	356657	-	see also 22080 line
49852	FZRI	NM_016263.2	388	ggcctccacgcctgaggaagagg	356659	-	see also 22080 line
49853	G30	NM_172368.1	405	ggccaggtttgtgaaggtaac	424480	-	see also 22081 line
49854	G30	NM_172368.1	492	ggccacattcaagggaacattca	424481	-	see also 22081 line
49855	G6PC3	NM_138387.1	686	ttgagtttgcggaattctcatc	407874	-	see also 22082 line

図46 (続き)

1323

49856	G6PC3	NM_138387.1	793	gagcggagcctaagcttctatgg	407878	-	see also 22082 line
49857	GA17	NM_006360.2	105	tctgtcttatctgaatctaa	335314	-	see also 22083 line
49858	GA17	NM_006360.2	247	caagtgggtatccctactcttga	335316	-	see also 22083 line
49859	GAB2	NM_012296.2	1870	caacggcagcgttgattatctgg	337976	-	see also 22084 line
49860	GAB2	NM_012296.2	805	gcgagccggcacaatcacagaat	337962	-	see also 22084 line
49861	GAB2	NM_012296.2	1368	gcgagtcgacagcagcaaatct	337969	-	see also 22084 line
49862	GAB3	NM_080612.1	1126	accgagacaagcggcttagttg	406427	-	see also 22085 line
49863	GAB3	NM_080612.1	1131	gacaagcggcttagttgaattt	406430	-	see also 22085 line
49864	GAGED2	NM_020411.1	446	tccggcgtcaagtggaagataat	377376	-	see also 22086 line
49865	GAGED2	NM_020411.1	421	accgggagataaatctggaattg	377375	-	see also 22086 line
49866	GAJ	NM_032117.2	278	ggagatcggaacttctaattt	397764	-	see also 22087 line
49867	GAJ	NM_032117.2	282	atcggaacttctaattattg	397766	-	see also 22087 line
49868	GALNT10	NM_017540.3	977	gtgacataggtcttcatgaac	358994	-	see also 7020 line
49869	GALNT10	NM_017540.3	524	gggatcgagcagtcagaaaaag	358986	-	see also 7020 line
49870	GALNT11	NM_022087.1	1221	tccgaaaaagcgaccatatgg	382244	-	see also 22089 line
49871	GALNT11	NM_022087.1	949	tctgtccgggagggttcaactgg	382233	-	see also 22089 line
49872	GALNT15	NM_145292.2	1158	tgtctatcgtcggcattatttt	414231	-	see also 22090 line
49873	GALNT15	NM_145292.2	1452	tccggcagcgttggtgaaagg	414248	-	see also 22090 line
49874	GALNT15	NM_145292.2	1159	tgtctatcgtcggcattatttt	414232	-	see also 22090 line
49875	GALNT7	NM_054110.2	1739	ctctgggtagacacatctacc	406052	-	see also 22091 line
49876	GALNT7	NM_054110.2	1640	tggagcgtatgaactcttattgt	406048	-	see also 22091 line
49877	GBAS	NM_001483.1	544	tgcgaagatcgggacctaata	330295	-	see also 22092 line
49878	GBAS	NM_001483.1	254	accggaatcctagaagacataca	330290	-	see also 22092 line
49879	GBDR1	NM_016172.1	1269	accaaccgaaacattgctagc	356529	-	see also 22093 line
49880	GBDR1	NM_016172.1	365	aaccatcataaattaatccacg	356519	-	see also 22093 line
49881	GBL	NM_022372.2	310	cagctacgacggcgtcaacaaga	382749	-	see also 22094 line
49882	GBL	NM_022372.2	257	taccagcacatccgcattgtga	382747	-	see also 22094 line
49883	GBP	NM_017870.2	2780	ctgcgtatcagcgaagaacc	363324	-	see also 22095 line
49884	GBP	NM_017870.2	2578	aggtgtgagggggcaagttgagc	363323	-	see also 22095 line
49885	GBX2	NM_001485.1	945	gcctccgggaacccctaagatcg	330304	-	transcription_regulat
49886	GBX2	NM_001485.1	855	cagcggaggtgcaggtgaaaatct	330303	-	or transcription factor -
49887	GBX2	NM_001485.1	988	gtcagcaggttctgctatcagaag	330305	-	see also 49885 line
49888	GCET2	NM_152785.2	375	atcatcgggttctctgtacaagg	421215	-	see also 49885 line
49889	GCET2	NM_152785.2	528	ccgagtcgccagaagaatgaat	421217	-	see also 22096 line
49890	GCP16	NM_016099.1	263	cagcatatacattcttctatgc	356273	-	see also 22097 line
49891	GCP16	NM_016099.1	401	tccggatttgaattaccatt	356281	-	see also 22097 line
49892	GDAP1	NM_018972.1	64	ggcggagcggcggaggttaagctca	373895	-	see also 7621 line
49893	GDAP1	NM_018972.1	461	atccggcttatgcaactacaag	373905	-	see also 7621 line
49894	GDAP1	NM_018972.1	766	cacattgcctgactgaagtcc	373911	-	see also 7621 line
49895	GDAP1L1	NM_024034.3	602	ggcggagtcgcagacatttagc	385535	-	see also 8566 line
49896	GDAP1L1	NM_024034.3	69	tggcgaacccccaaactgaacc	385533	-	see also 8566 line
49897	GDAP2	NM_017686.1	952	acctgaacagacagattagaata	360794	-	see also 22099 line
49898	GDAP2	NM_017686.1	951	tacctgaacgacagattagaata	360793	-	see also 22099 line

図46 (続き)

1324

49899	GDDR	NM_182536.1	323	tccaatggtacatctatagagaa	434221	-	see also 22100 line
49900	GDDR	NM_182536.1	89	atggatacagagtttttaacatc	434215	-	see also 22100 line
49901	GDF7	NM_182828.1	1498	gcgtgcccaaggcagtcattgg	435297	-	see also 22101 line
49902	GDF7	NM_182828.1	1391	ccgcacgcagagaaagagagc	435296	-	see also 22101 line
49903	GEFT	NM_133483.1	862	ctgaagacctctcatcaaac	407241	-	see also 22102 line
49904	GEFT	NM_133483.1	1620	agccctcttgcactggataaac	407246	-	see also 22102 line
49905	GEMIN5	NM_015465.1	320	tccatcagcatcagatataca	353333	-	see also 22103 line
49906	GEMIN5	NM_015465.1	3184	aaggaggatgcggcatcacttag	353393	-	see also 22103 line
49907	GEMIN6	NM_024775.8	444	ggctgggctcctactatagacc	390576	-	see also 22104 line
49908	GEMIN6	NM_024775.8	80	gccccttagaatggcaagattac	390570	-	see also 22104 line
49909	GEMIN7	NM_024707.1	574	tgctcoagatgtagacattatt	389454	-	see also 22105 line
49910	GEMIN7	NM_024707.1	567	gagcgcctctccgatgtatga	389452	-	see also 22105 line
49911	GGN	NM_152657.3	1886	tgcccttcagatgcttaactcc	419530	-	-
49912	GJA3	NM_021954.2	796	atcggtgtccaccctactatgc	381578	-	see also 8215 line
49913	GJA3	NM_021954.2	437	tgccggacctacgtcttaacatc	381576	-	see also 8215 line
49914	GJA8	NM_005267.2	1303	cccctgagcaggctaaagcaagc	333583	-	see also 22106 line
49915	GJA8	NM_005267.2	934	ctgcctgccaaagccttcaatca	333579	-	see also 22106 line
49916	GJB7	NM_198568.1	701	ggcctatgtacgtctattctat	439696	-	see also 22107 line
49917	GJB7	NM_198568.1	702	ggcctatgtacgtctattctatc	439697	-	see also 22107 line
49918	GK001	NM_020198.1	340	atctctcaaacgggtcactatca	376095	-	see also 22108 line
49919	GK001	NM_020198.1	945	aagacatggtacatctactgttt	376118	-	see also 22108 line
49920	GK003	NM_020192.1	384	tcacacgtccatctgttagatt	375930	-	see also 22109 line
49921	GK003	NM_020192.1	239	gagactccaggaacattgagt	375926	-	see also 22109 line
49922	GK003	NM_020192.1	128	gacgagtcacaaagattataga	375921	-	see also 22109 line
49923	GL004	NM_020194.4	721	ggagagcgtgtatgagtgaat	376049	-	see also 7800 line
49924	GL004	NM_020194.4	697	tcggagcaggtggcagacataaa	376046	-	see also 7800 line
49925	GL009	NM_032492.2	354	gtgggaatacccgattttgtctga	400396	-	see also 9220 line
49926	GL009	NM_032492.2	410	ttcccgcaacacattagctac	400398	-	see also 9220 line
49927	GLIS2	NM_032575.1	616	gacatgtcaacgattaccatgt	400821	-	see also 22112 line
49928	GLIS2	NM_032575.1	885	ctccagtgaccgcttaagcaca	400823	-	see also 22112 line
49929	GLTDC1	NM_182974.1	376	aagccctgatgtataacgaaa	435531	-	see also 22113 line
49930	GLTDC1	NM_182974.1	1127	tcctccacagatccaatcgtca	435549	-	see also 22113 line
49931	GLTDC1	NM_182974.1	1143	taagttaaggtcgccacatgattc	435550	-	see also 22113 line
49932	GLTSCR1	NM_015711.1	3652	accagagccatgctcaataata	355230	-	see also 22114 line
49933	GLTSCR1	NM_015711.1	2220	ggcgcttagcccgaggagatcgc	355227	-	see also 22114 line
49934	GLYOTK	NM_145262.2	1064	cagccatcgaagtgatgataaaa	413972	-	kinase-related, transcription_regulat or
49935	GLYOTK	NM_145262.2	1065	agccatgcgaagtgatgataaaa	413973	-	see also 49934 line
49936	GLYOTK	NM_145262.2	1069	atgcaaggtgagttaaaaagtat	413974	-	see also 49934 line
49937	gm117	NM_198077.1	223	ctctacaatccgctcaacaaca	436977	-	see also 22115 line
49938	gm117	NM_198077.1	368	caragottgaatggcaataaaa	436980	-	see also 22115 line
49939	GMH1	NM_014044.4	1264	agcgaacgctacaatattcga	339390	-	see also 5471 line
49940	GMH1	NM_014044.4	1526	tgggttgactatagattgtgt	339396	-	see also 5471 line

図46 (続き)

1325

49941	GNPNAT1	NM_198066.1	586	tacatgtgtcggagggtttctaa	436955	-	see also 22117 line
49942	GNPNAT1	NM_198066.1	497	aactgaactgtacaagattacc	436953	-	see also 22117 line
49943	GNRPX	NM_018049.1	413	tgcggagaagcctcatctctac	365841	-	-
49944	GnT-IX	NM_144677.2	479	cacatocgcacagaagtatgg	411273	-	see also 22118 line
49945	GnT-IX	NM_144677.2	2419	gcctggaccacgggtaactgt	411279	-	see also 22118 line
49946	GOLPH3	NM_022130.3	503	accgcgagggtacacataatt	382399	-	see also 8292 line
49947	GORASP1	NM_031899.2	528	caggagtcaggactctttac	397233	-	see also 9049 line
49948	GORASP1	NM_031899.2	989	tcagtgtagcaggatggaacc	397240	-	see also 9049 line
49949	GPP34R	NM_018178.3	303	aggatatccgcttacttattg	368035	-	see also 7302 line
49950	GPR103	NM_198179.1	183	tggcaatgctctgggtctacg	437162	-	see also 22121 line
49951	GPR103	NM_198179.1	331	tggctgggggggtcttctattg	437163	-	see also 22121 line
49952	GPR107	NM_020960.1	429	taccagttaccagaatcatct	380231	-	see also 22122 line
49953	GPR107	NM_020960.1	864	tcgaaacacgaggaatgatgt	380241	-	see also 22122 line
49954	GPR141	NM_181791.1	629	agctagccacttcttactacc	433519	-	see also 22123 line
49955	GPR141	NM_181791.1	27	ttccttggagatccttagtga	433507	-	see also 22123 line
						receptor activity, gpcr,	-
49956	GPR142	NM_181790.1	112	atgtgttcccatgcacagaaag	433503	-	signal transduction
49957	GPR142	NM_181790.1	329	agctgcggggaccctcagaataa	433504	-	see also 49956 line
49958	GPR142	NM_181790.1	73	gtctgggtacagaagcatatc	433501	-	see also 49956 line
49959	GPR144	NM_182611.1	1372	ctgagccaaggcgtgttatgt	434665	-	see also 22124 line
49960	GPR144	NM_182611.1	1370	agctggagcaaggcgttatgt	434664	-	see also 22124 line
49961	GPR8	NM_005286.2	189	caggccogtactcttgaatcc	333585	-	see also 22125 line
49962	GPR8	NM_005286.2	363	ggcgtcgaccactacacatct	333588	-	see also 22125 line
49963	GPT	NM_005309.1	1113	gggttggagttccactcattca	333627	-	see also 22126 line
49964	GPT	NM_005309.1	566	tcctgacgatgccagaagaaag	333625	-	see also 22126 line
49965	GPX6	NM_182701.1	197	cggcgagaggtacatccattca	434874	-	see also 22127 line
49966	GPX6	NM_182701.1	230	aggcaagcaogtctgtttgtoa	434875	-	see also 22127 line
49967	GR6	NM_007354.1	1179	cccaccactaccatttgacatg	337467	-	-
49968	GRASP	NM_181711.1	549	ggcatccggcatcgagagattgt	432876	-	see also 22128 line
49969	GRASP	NM_181711.1	453	accttctctccgagtgatga	432874	-	see also 22128 line
49970	GRCC10	NM_138425.2	304	cggggaagggtctcctaagttg	408103	-	see also 22129 line
49971	GRCC10	NM_138425.2	305	gggggaagggtctcctaagttg	408104	-	see also 22129 line
49972	GRLF1	NM_004491.2	611	aagttgttgacggtacattaga	332504	-	see also 22130 line
49973	GRLF1	NM_004491.2	1743	gocgttgaccggaatcagaaaa	332541	-	see also 22130 line
49974	GRPEL2	NM_152407.2	592	accgtggcattagtaagaca	416376	-	see also 9857 line
49975	GRPEL2	NM_152407.2	589	ggcaccgtggcattagtaagaca	416374	-	see also 9857 line
49976	GRWD1	NM_031485.2	1205	gggacccctcggcagttcaagtt	397206	-	see also 22132 line
49977	GRWD1	NM_031485.2	443	cagagttctcttacttctac	397205	-	see also 22132 line
49978	GSDM	NM_178171.2	1108	ggggcactctctattcttgg	430565	-	-
49979	GSDM	NM_178171.2	1012	gaacttgagctcgacactgaag	430564	-	see also 49978 line
49980	GSDM	NM_178171.2	779	ttcacatatctcaatgataac	430560	-	see also 49978 line
49981	GSDML	NM_018530.1	732	ctgaaaaagcggcgaataataa	372153	-	see also 22133 line
49982	GSDML	NM_018530.1	737	aagcgaccggcaataataattt	372154	-	see also 22133 line

図46 (続き)

1326

49983	GSDML	NM_018530.1	738	agcgagccgcaataaaatttg	372155	-	see also 22133 line
49984	GS1	NM_031289.1	479	tgcgaagtttcattgaacttac	396510	-	see also 9003 line
49985	GS1	NM_031289.1	672	atcacctacatcgacttcaatt	396516	-	see also 9003 line
49986	GS112	NM_006418.3	630	tgcattcgcgcgagaaactgttg	335504	-	see also 22136 line
49987	GW112	NM_006418.3	1474	gtctataacgagtgtaactctt	335535	-	see also 22136 line
49988	H326	NM_015726.2	1167	gtggcgctgtatacagatctatgt	355246	-	see also 6542 line
49989	H63	NM_138423.2	631	aactacagacaacacatatogtat	408078	-	see also 9618 line
49990	H63	NM_138423.2	1225	accocggtacttcaaacagaaat	408089	-	see also 9618 line
49991	HABP4	NM_014282.1	1112	tccggaaacccgcacatgacatc	340022	-	see also 22140 line
49992	HABP4	NM_014282.1	793	acctggggatcggttaagatac	340017	-	see also 22140 line
49993	HAGHL	NM_032304.1	262	tgtcagagacaactacatgtac	399602	-	see also 22141 line
49994	HAGHL	NM_032304.1	257	cccgctgtcgtgaggacaactaca	399601	-	see also 22141 line
49995	HATH6	NM_032827.3	402	gcgggaacgctataaaacttc	401729	-	see also 9297 line
49996	HATH6	NM_032827.3	911	tcctcgcgtgcctaggaaacg	401736	-	see also 9297 line
49997	HATH6	NM_032827.3	401	cgcggaacgctataaaacttt	401728	-	see also 9297 line
49998	HDXIP	NM_006402.2	165	gacgttgacacgtgatcaattt	335387	-	see also 22144 line
49999	HDXIP	NM_006402.2	497	gtgtgtctagaatcagataatgg	335391	-	see also 22144 line
50000	HCA112	NM_018487.2	496	ttccgatatgctactcttatta	372040	-	-
50001	HCA112	NM_018487.2	84	aacagccgacagtgatgagatgg	372035	-	see also 50000 line
50002	HCA112	NM_018487.2	378	agctgtcgtcttatttaccgaga	372038	-	see also 50000 line
50003	HCA3	NM_138703.2	669	ttccagatcaccgataagtagc	408635	-	see also 22145 line
50004	HCA3	NM_138703.2	1137	ttgttccagtgtgctatagtgt	408644	-	see also 22145 line
50005	HCA2	NM_053005.2	211	cagcaacacacagacgttttcc	405762	-	see also 9480 line
50006	HCA2	NM_053005.2	358	ggcccccagctagcttgacttcg	405764	-	see also 9480 line
50007	HCCR1	NM_015416.2	931	atctcgttggtcgtgaattctacg	352360	-	see also 22147 line
50008	HCCR1	NM_015416.2	826	gacatggttgaagactcaca	352358	-	see also 22147 line
50009	HCD1	NM_020195.1	281	cccaactccacgggaataaacc	376061	-	see also 22148 line
50010	HCD1	NM_020195.1	280	ccccaaactccacgggaataaacc	376060	-	see also 22148 line
50011	HCD1	NM_020195.1	284	aactccacgggaataaacaacat	376062	-	see also 22148 line
50012	HCF1R1	NM_017885.1	396	cccgctgtggggacataatggagc	363372	-	-
50013	HCG4	NM_018985.1	1224	ccgctccctctcttccacttg	374066	-	see also 22149 line
50014	HCG4	NM_018985.1	1229	ccctctcttctcacttgcacatca	374067	-	see also 22149 line
50015	HCG4	NM_018985.1	406	aggttcaactcgtgtaaaactgtgc	374063	-	see also 22149 line
50016	HCMOGT-	NM_152904.1	2075	accgggtctcaggttacacaacat	421606	-	see also 22150 line
50017	HCMOGT-	NM_152904.1	1133	ccccaaacagcgtgaatgaattg	421588	-	see also 22150 line
50018	HCMGP	NM_013260.3	662	aggagagaacaaaatttgattt	338494	-	see also 22151 line
50019	HCMGP	NM_013260.3	381	accocctggcagagtgtaaacatc	338488	-	see also 22151 line
50020	HDCMA18	NM_016648.1	593	aagagtattatgcgtacacaaaa	358688	-	see also 22152 line
50021	HDCMA18	NM_016648.1	1139	aagcgagtaaacataaagattt	358708	-	see also 22152 line
50022	HE9	NM_172000.1	469	tgtctatggtgtcacatgttaa	424171	-	see also 22153 line
50023	HE9	NM_172000.1	502	gggtgagctgcacgtttattct	424175	-	see also 22153 line
50024	HEBP2	NM_014320.1	459	atccagacgggctttacgaact	340174	-	see also 22154 line
50025	HEBP2	NM_014320.1	422	cagcaogtcgctggaggtctatgg	340173	-	see also 22154 line
50026	HEIL1	NM_032362.1	367	togctcaatcctgcaatgtgtca	400001	-	see also 22155 line

1327

図46 (続き)

50027	HEIL1	NM_032362.1	40	gacaactttacagagaataataa	399997	-	see also 22155 line
50028	HELB	NM_033647.2	201	ccgggtgctcgcgcgtttctatt	404156	-	see also 22156 line
50029	HELB	NM_033647.2	1474	caaatattgtagcgtcttttta	404193	-	see also 22157 line
50030	HEMGN	NM_018437.3	795	taccagaatatgctaaacagaga	371527	-	see also 22157 line
50031	HEMGN	NM_018437.3	902	aggatgctctcttcaagcatatc	371531	-	see also 22157 line
50032	HFL-	NM_006553.2	521	tgctatcgagtggaataattgaac	335810	-	see also 22158 line
50033	EDDG1	NM_006553.2	483	gccaataacgatataatccaatgc	335807	-	see also 22158 line
50034	HHIP	NM_022475.1	2180	tacgtgtttggagatcgtaattgg	383239	-	see also 8397 line
50035	HHIP	NM_022475.1	2726	tacttcttgatctaaacagtta	383251	-	see also 8397 line
50036	HHI	NM_014857.2	1982	tggtcaagaatcgctctataaga	344896	-	see also 6054 line
50037	HHLA1	NM_005712.1	1679	aaggcaacagcccccagatattcc	334206	-	see also 22161 line
50038	HHLA1	NM_005712.1	1548	ccggaggagccatgaacataca	334202	-	see also 22161 line
50039	HHLA3	NM_007071.1	269	tacttctgctgctgttgtaaacg	336883	-	-
50040	HHLA3	NM_007071.1	127	tccgtgcatgttataaacaacc	336882	-	see also 50039 line
50041	hIAN2	NM_024711.2	337	caggagcgtcttcgagctaaac	389490	-	see also 22162 line
50042	hIAN2	NM_024711.2	732	ggcgcaatcgccgtctcaaacac	389493	-	see also 22162 line
50043	hIAN6	NM_175571.1	1836	tacgaataacgcgattatgctgt	429052	-	see also 22163 line
50044	hIAN6	NM_175571.1	1922	aagcccttggcgacatttttaaa	429053	-	see also 22163 line
50045	hIAN7	NM_153236.2	694	gtgcaacgaaggaggtctacttt	422451	-	see also 22164 line
50046	hIAN7	NM_153236.2	555	atcgagatgtgggctctaaagc	422450	-	see also 22164 line
50047	hIAN7	NM_153236.2	698	aacgaaggaggtctactttctga	422453	-	see also 22164 line
50048	HIC1	NM_006497.1	384	ctcgtggcgtgtgcaagaacg	335695	-	see also 22165 line
50049	HIF1AN	NM_017902.1	852	tggtcacatagaggtctattact	363737	-	see also 22166 line
50050	HIF1AN	NM_017902.1	207	gtctgacccgacacaaatttgt	363721	-	see also 22166 line
50051	HILS1	NM_194072.1	550	ggcccgaaatgctctactctca	436064	-	see also 22167 line
50052	HILS1	NM_194072.1	479	gacaaggagacctgcaagatgt	436062	-	see also 22167 line
50053	HIMAP2	NM_015660.1	1080	aacgcaagactctctaggattag	354958	-	see also 22168 line
50054	HIMAP2	NM_015660.1	496	tgccatggagacacacaattgtcc	354944	-	see also 22168 line
50055	HIMAP4	NM_018326.2	1050	tacgtgttccgaggaagattaa	370409	-	see also 22169 line
50056	HIMAP4	NM_018326.2	634	ccgctactgtcggttaaacaca	370400	-	see also 22169 line
50057	HINT2	NM_032593.1	448	ctgggtgcacaaatctgtgtatca	400966	-	see also 22170 line
50058	HINT2	NM_032593.1	450	gggtgcacaaatctgtgtatcatc	400967	-	see also 22170 line
50059	HIP14	NM_015336.1	1990	aaccggtgaggtccaaacattgt	351677	-	see also 6369 line
50060	HIP14L	NM_019028.1	267	aagctactcaataacgaattttt	374522	-	see also 7667 line
50061	HIP14L	NM_019028.1	231	ctctatagaggactctagttaac	374519	-	see also 7667 line
50062	HIRIP5	NM_015700.1	793	ggcgtagaagaacaggtattggtga	355153	-	see also 22173 line
50063	HIRIP5	NM_015700.1	647	atggaggagatgtaatatcacaaa	355148	-	see also 22173 line
50064	HIS1	NM_006460.1	1333	aggaggagccggatctcaaacacc	335592	-	see also 22174 line
50065	HIS1	NM_006460.1	1457	aggaggagccagcagagattctgc	335593	-	see also 22174 line
50066	HIST1H4B	NM_003544.2	134	agcgaattccgggtttgatttat	331766	-	see also 22175 line
50067	HIST1H4H	NM_003543.3	7	ggccgtggtgaagggtgggaagg	331764	-	-
50068	HIST1H4L	NM_003546.2	163	gacacgcggagttcttaagttgt	331769	-	see also 22176 line

図46 (続き)

1328

50069	HIVEP2	NM_006734.2	5315	ctggaaccggaagcttaacatca	336252	-	see also 4756 line
50070	HIVEP2	NM_006734.2	5629	atccgtaccatctactgattg	336264	-	see also 4756 line
50071	HIW2	NM_152431.1	2433	caactaacgaatgtagcttt	416754	-	see also 22179 line
50072	HIW2	NM_152431.1	2428	agaacacgtaacgaatgtag	416753	-	see also 22179 line
50073	HKR2	NM_181846.1	815	ctgggtccctcagggaacagttc	433809	-	see also 22180 line
50074	HKR2	NM_181846.1	653	cccttggaacccgcttgaag	433807	-	see also 22180 line
50075	HLC-8	NM_017941.3	1670	aacccctcgcggacttaacac	364470	-	see also 22181 line
50076	HLC-8	NM_017941.3	1327	gagatccgaggagacagtatc	364459	-	see also 22181 line
50077	HMGAI14	NM_031288.1	295	tcoccttaagttagaataag	396500	-	see also 22182 line
50078	HMGAI14	NM_031288.1	296	cccttatggttggataatga	396501	-	see also 22182 line
50079	HN1	NM_016185.1	145	caggaatagctcccgagtttgc	356545	-	-
50080	HN1	NM_016185.1	177	gtgtggatcccaattttcatta	356547	-	see also 50079 line
50081	HN1	NM_016185.1	171	ctccaggtgtggatccaatttt	356546	-	see also 50079 line
50082	HNLF	NM_182547.2	341	cccgtagacatcaaatctgtct	434327	-	see also 22183 line
50083	HNLF	NM_182547.2	539	gagcaggattaccgaagtatcg	434331	-	see also 22183 line
50084	HNOEL-	NM_020190.1	1133	aacgggcagcactccctfattt	375917	-	see also 22184 line
50085	HNOEL-	NM_020190.1	1047	gacccctatgtcgtctataaca	375916	-	see also 22184 line
50086	HOM-	NM_016383.1	99	ctctagacgacattataatctat	357258	-	see also 22185 line
50087	HOM-	NM_016383.1	63	atccagctcggaataaaggtaaac	357254	-	see also 22185 line
50088	TES-85	NM_016383.1	64	tcocagtcggaataaaggtaaac	357255	-	see also 22185 line
50089	HOOK1	NM_015888.3	1506	ttgagcagctgtactttgaaa	355339	-	see also 6562 line
50090	HOOK1	NM_015888.3	1790	ctgagcaaaagcgtattagaga	355349	-	see also 6562 line
50091	HOXA13	NM_000522.2	1013	aacgggaataacccagcaataaa	329695	-	see also 400 line
50092	HOXA13	NM_000522.2	1021	tacgccacgaataaatcattac	329697	-	see also 400 line
50093	HOXD11	NM_021192.2	114	gtcgtctgcagagactttcc	380742	-	see also 8130 line
50094	HOXD12	NM_021193.2	719	aacgcaaggaattgtccaatagg	380749	-	see also 22188 line
50095	HOXD12	NM_021193.2	279	accggaagcagcaggttaagttct	380746	-	see also 22188 line
50096	HPS3	NM_032383.3	2664	caagctgtaataatctctgattc	400167	-	see also 22189 line
50097	HPS3	NM_032383.3	224	ggggcgtgacgcgctttctgtg	400097	-	see also 22189 line
50098	HPS5	NM_007216.3	1685	ctccgttcgcattccattacc	337154	-	see also 22190 line
50099	HPS5	NM_007216.3	2674	tgtaccctggtttagaaagt	337190	-	see also 22190 line
50100	HPS6	NM_024747.4	1463	cgggattaccgagcttagaaca	389899	-	see also 22191 line
50101	HPS6	NM_024747.4	783	ttggtctctctacagtaagagt	389893	-	see also 22191 line
50102	HRASLS	NM_020386.2	808	caggccaacccgagcgataagtag	377364	-	see also 22192 line
50103	HRASLS	NM_020386.2	819	agccataagtaacctgtgattg	377366	-	see also 22192 line
50104	HRASLS2	NM_017878.1	210	ctgtctccctgacccaacaagc	363369	-	see also 22193 line
50105	HRASLS2	NM_017878.1	314	accactgctctcccaaaaatcg	363370	-	see also 22193 line
50106	HRD1	NM_032431.1	558	tgtgaagccacgctctcaacagc	400224	-	see also 9187 line
50107	HRLP5	NM_054108.1	298	tgcaccactcagcttaaatagc	406027	-	see also 22195 line
50108	HRLP5	NM_054108.1	958	cagctgtagtggatagataaag	406035	-	see also 22195 line
50109	HS322B1A	NM_015371.1	73	agcatgacatccagttcaacttt	351873	-	-

1329

図46 (続き)

50110	HS747E2A	NM_015370.1	721	gtggaggacacctaaccatcc	351871	-	-	-
50111	HS747E2A	NM_015370.1	176	ctcgcacagtcctattataa	351862	-	-	see also 50110 line
50112	HS747E2A	NM_015370.1	349	ctccctggttaagcttgactaa	351866	-	-	see also 50110 line
50113	HS747E2A	NM_015370.1	247	ggagccttattcgtatataaga	371143	-	-	see also 7448 line
50114	HS747E2A	NM_015370.1	1255	tcctcccaagcttgatcttct	371162	-	-	see also 7448 line
50115	HS747E2A	NM_015370.1	1112	ggcgttgatataactaccatct	372210	-	-	see also 7508 line
50116	HS747E2A	NM_015370.1	603	cacttcacgtgacacattact	377923	-	-	see also 22197 line
50117	HS747E2A	NM_015370.1	829	gtcggctgcctcgtctatttga	377924	-	-	see also 22197 line
50118	HS747E2A	NM_015370.1	285	agcacgacactggaatcgaat	387839	-	-	see also 8667 line
50119	HS747E2A	NM_015370.1	888	gtggcattacgtagaatccatig	387851	-	-	see also 8667 line
50120	HS747E2A	NM_015370.1	112	acccgagcaactgcattccatgc	339205	-	-	-
50121	HS747E2A	NM_015370.1	96	aagaaaaaggcgtcgtgtatcg	339416	-	-	-
50122	HS747E2A	NM_015370.1	38	cgacacaaacccgcaagagtaag	339415	-	-	-
50123	HS747E2A	NM_015370.1	311	cactctggagacccctctctta	380784	-	-	see also 50121 line
50124	HS747E2A	NM_015370.1	438	ctctgcatttgggaaccttattc	380786	-	-	see also 22199 line
50125	HS747E2A	NM_015370.1	215	ggagagagcgaagtttgattttc	339626	-	-	-
50126	HS747E2A	NM_015370.1	660	aagcgcaaaagctacattgttat	339697	-	-	see also 5523 line
50127	HS747E2A	NM_015370.1	697	ctgtaaaagtggcacacacaa	339699	-	-	see also 5523 line
50128	HS747E2A	NM_015370.1	1120	atcgtaaagcttgggaatcgaatg	339732	-	-	see also 22202 line
50129	HS747E2A	NM_015370.1	1121	tgttaagccttgggaatcgaatga	339733	-	-	see also 22202 line
50130	HS747E2A	NM_015370.1	444	aaggaaacacactgggtcacaata	339768	-	-	see also 22203 line
50131	HS747E2A	NM_015370.1	474	gcctcacaatatccagatctctaa	339770	-	-	see also 22203 line
50132	HS747E2A	NM_015370.1	306	acctactggccgctcagattgc	357275	-	-	see also 22204 line
50133	HS747E2A	NM_015370.1	62	ggatgaacacggccaaaggattg	357274	-	-	see also 22204 line
50134	HS747E2A	NM_015370.1	91	gtcgtgacaggaataagaatgt	339792	-	-	see also 22205 line
50135	HS747E2A	NM_015370.1	278	atcgatatacagataatctgaaa	339798	-	-	see also 22205 line
50136	HS747E2A	NM_015370.1	393	aacgtgatatagataaacaattg	357285	-	-	see also 22206 line
50137	HS747E2A	NM_015370.1	1284	acggcctttcgtgacattgt	357317	-	-	see also 22206 line
50138	HS747E2A	NM_015370.1	99	atcgctgggttcgcgcgagaaatt	357372	-	-	see also 22207 line
50139	HS747E2A	NM_015370.1	101	cgctgggttcgcgcgagaaattt	357374	-	-	see also 22207 line
50140	HS747E2A	NM_015370.1	418	cgctgcgcggtgtgtttatagg	339815	-	-	see also 22208 line
50141	HS747E2A	NM_015370.1	416	tccggctgcgcggtgtgtttata	339813	-	-	see also 22208 line
50142	HS747E2A	NM_015370.1	351	atggagaggaatctgtacttttc	357378	-	-	see also 22209 line
50143	HS747E2A	NM_015370.1	352	tggagaggaatctgtacttttct	357379	-	-	see also 22209 line
50144	HS747E2A	NM_015370.1	511	ggatgtttcgtgcggacacaa	339839	-	-	see also 22210 line
50145	HS747E2A	NM_015370.1	1110	gtctgaacatccctgtacatct	339844	-	-	see also 22210 line
50146	HS747E2A	NM_015370.1	213	ttctacagcgcgtacacatacag	339864	-	-	see also 22211 line
50147	HS747E2A	NM_015370.1	349	aacgtgcgcacatgattgtatc	339869	-	-	see also 22211 line
50148	HS747E2A	NM_015370.1	658	acctatgggaatctgaactcc	339903	-	-	see also 22212 line
50149	HS747E2A	NM_015370.1	782	gtcctctgttaggacaatcagc	339906	-	-	see also 22212 line
50150	HS747E2A	NM_015370.1	467	acctatgggaatctgaactcc	339936	-	-	see also 5527 line
50151	HS747E2A	NM_015370.1	118	tacttccacacgtgattgtoc	339923	-	-	see also 5527 line
50152	HS747E2A	NM_015370.1	246	gtcctctgcccaggaatctgg	339963	-	-	see also 22213 line
50153	HS747E2A	NM_015370.1	28	ctgacagcgggagcatttgcagc	339960	-	-	see also 22213 line

図46 (続き)

1330

50154	HSPC166	NM_014186.1	323	tcctagaacatgtgtctacttgg	339964	-	see also 22213 line
50155	HSPC189	NM_016535.2	322	cccaaccactacctgtattga	358050	-	-
50156	HSPC189	NM_016535.2	326	accactacctgtgtattgacact	358051	-	see also 50155 line
50157	HSPC196	NM_016464.2	547	gactagcagcaggtgtgtactgc	357589	-	see also 22215 line
50158	HSPC196	NM_016464.2	178	tgctccagccaccagtaactacagc	357584	-	see also 22215 line
50159	HSPC242	NM_016498.2	376	ctggcggatgccattgacaaagg	357885	-	see also 22216 line
50160	HSPC268	NM_197964.1	155	ggcctatcgactactgtgaagg	436919	-	see also 22217 line
50161	HSPC268	NM_197964.1	187	ccatcgggtgccaggtgaaaag	436920	-	see also 22217 line
50162	HSU15552	NM_014597.1	1880	ttccaccatagtagaatcaaaag	340958	-	see also 22218 line
50163	HSU15552	NM_014597.1	1875	ctgtgtccaccatagtagaat	340957	-	see also 22218 line
50164	HSU79266	NM_013299.1	969	agcctcgtgaggtgtctacagc	338682	-	-
50165	HSU79274	NM_013300.1	882	agctcccggttactcacagaaaca	338692	-	see also 22219 line
50166	HSU79274	NM_013300.1	876	cgcttagctcccggttactaca	338691	-	see also 22219 line
50167	HSU79274	NM_013300.1	917	cactacatggcagacatacaactgg	338694	-	see also 22219 line
50168	hSyn	NM_018157.1	307	tgctgcgactagccaaagctaaat	367782	-	see also 7288 line
50169	hSyn	NM_018157.1	639	aagtgagccgtagtgatgaatc	367795	-	see also 7288 line
50170	HT007	NM_018480.2	441	cagcgcgtcttcaagggttaaac	372021	-	see also 22221 line
50171	HT007	NM_018480.2	753	ggcgattcctctagtctttcaga	372032	-	see also 22221 line
50172	HT009	NM_018470.1	485	ggcgagtaacagcagcatgaagta	371925	-	see also 22222 line
50173	HT009	NM_018470.1	640	atcgggaatgccctacacaaatcg	371929	-	see also 22222 line
50174	HT011	NM_018472.1	256	tggagtgaggctgctgctgaaag	371930	-	see also 22223 line
50175	HT011	NM_018472.1	257	tggagtcgggctgctgctgaaagg	371931	-	see also 22223 line
50176	HT011	NM_018472.1	768	gtgggtatcaccccaagataga	371949	-	see also 22223 line
50177	HT014	NM_020362.2	611	cagatagcagaaaggcttttat	376902	-	see also 7847 line
50178	HT017	NM_020678.2	566	ttgggagaaaccttaactacttg	377938	-	see also 22225 line
50179	HT017	NM_020678.2	287	gactgaagcgtgcattacaag	377930	-	see also 22225 line
50180	HT021	NM_020685.3	141	ctcaagaattgcgctttctaaa	377977	-	see also 22226 line
50181	HT021	NM_020685.3	432	taggaaggcacaatatctcttt	377982	-	see also 22226 line
50182	HT036	NM_031207.2	407	accocaggagctgctgaatag	395959	-	see also 22227 line
50183	HT036	NM_031207.2	602	aagaccacaacctcaactacaaa	395964	-	see also 22227 line
50184	hT2R55	NM_181429.1	379	acgggaatgattgttatctctt	432103	-	see also 22228 line
50185	hT2R55	NM_181429.1	899	ggcatcttaggaactatacaaaa	432113	-	see also 22228 line
50186	HTPAP	NM_032483.2	598	gtccgcacatgtgactacaagc	400369	-	see also 22229 line
50187	HTPAP	NM_032483.2	166	cacaaagccgatgtttgtattg	400360	-	see also 22229 line
50188	HTR1A	NM_000524.1	545	accocgagcgtacacattagc	329705	-	see also 22230 line
50189	HTR1A	NM_000524.1	1185	cccgctatttaccatctacttca	329713	-	see also 22230 line
50190	HTR3D	NM_182537.1	391	ggcagccctacagtagtgaact	434229	-	see also 22231 line
50191	HTR3D	NM_182537.1	397	cccctacgtgtgaactttctgg	434231	-	see also 22231 line
50192	HTR3E	NM_182589.1	654	ggcctcacgcatatgttaagtaa	434551	-	see also 22232 line
50193	HTR3E	NM_182589.1	563	gggcatcaagaagatgagatgg	434549	-	see also 22232 line
50194	HUMAGCG B	NM_013286.2	744	tggtcgcaacccccattaatag	338667	-	see also 22233 line
50195	HUMAGCG B	NM_013286.2	864	gagcattggaccattgatcag	338670	-	see also 22233 line

1331

図46 (続き)

50196	HUMPPA	NM_014603.1	1723	ggcgcttctcaaaagagatctct	340991	-	see also 22234 line
50197	HYPB	NM_012271.1	3695	tggagaggctactcatcataaag	337879	-	see also 22235 line
50198	HYPB	NM_012271.1	574	gagagaggctcatcatatttaag	337798	-	see also 22235 line
50199	HYPB	NM_012272.1	1799	tggagatgagtagtgcacattcc	337931	-	see also 5247 line
50200	HYPB	NM_012272.1	2144	ctccaccctctggacttattca	337932	-	see also 5247 line
50201	IAN4.1	NM_018384.2	493	aggacgtgcagatgaacacagg	370977	-	see also 22237 line
50202	IAN4.1	NM_018384.2	374	caccacggcattgaggattatc	370974	-	see also 22237 line
50203	IBRDC1	NM_152553.2	999	gcatagcgggttgtaactgtga	418067	-	see also 22238 line
50204	IBRDC1	NM_152553.2	998	ggccataggcgggttgtaactgtg	418066	-	see also 22238 line
50205	IDN3	NM_015384.2	4198	gacgattgtggataatcgaact	352063	-	see also 22239 line
50206	IDN3	NM_015384.2	6015	gacgtactatgctcttcttat	352115	-	see also 22239 line
50207	IER5	NM_016545.2	560	tggagtcgggagcgtttttcagg	358078	-	see also 22240 line
50208	IER5	NM_016545.2	557	gactggagtcgggagcgtttttc	358077	-	see also 22240 line
50209	IFB30	NM_006332.3	579	ggctgtcgccagacactatcatg	335218	-	see also 22241 line
50210	IFB30	NM_006332.3	402	gtggcaggtaggagtgcaagtc	335212	-	see also 22241 line
50211	IF44	NM_006417.2	903	aagggtaacattcgtgatagata	335477	-	see also 22242 line
50212	IF44	NM_006417.2	913	tctgtgatagataccagtttaac	335480	-	see also 22242 line
50213	IFT2	NM_001547.3	505	gggtgacacaggttaaaagtgtg	330352	-	see also 22243 line
50214	IFT2	NM_001547.3	238	tgcacactactgccctatcaaa	330349	-	see also 22243 line
50215	IFX	NM_152501.2	883	atgcgctgtgactaaatgaac	417235	-	see also 22244 line
50216	IFX	NM_152501.2	1626	atgcgtcgcaacttagaatca	417244	-	see also 22244 line
50217	IFRG15	NM_022347.1	115	tcttagaccgtattaaacagagc	382634	-	see also 8337 line
50218	IFRG15	NM_022347.1	73	tgtaccacaaactgaacttgtga	382632	-	see also 8337 line
50219	IGJ	NM_144646.2	79	tggggagctcggcgggtttttat	410714	-	see also 22246 line
50220	IGJ	NM_144646.2	456	agctgtgtccacactcgtatgtg	410725	-	see also 22246 line
50221	IGRP	NM_021176.1	938	cccgaactcacgaagagcatttat	380604	-	see also 8116 line
50222	IGRP	NM_021176.1	843	ctggcggaggaggaataactaca	380602	-	see also 8116 line
50223	IGSF11	NM_152538.1	1264	gtccgggtcaacataagactct	417764	-	see also 22248 line
50224	IGSF11	NM_152538.1	1393	caagcaacacttggaacgaattgg	417767	-	see also 22248 line
50225	IGSF11	NM_152538.1	434	tccacggtaggtagattttaca	417736	-	see also 22249 line
50226	IGSF3	NM_001542.1	3528	ctccaaacgacgactcttctact	330325	-	see also 22249 line
50227	IGSF3	NM_001542.1	3371	tgcaggcaagcccccaagatata	330319	-	see also 22249 line
50228	IGSF4	NM_014333.2	434	caagtaattgatgatgatata	340192	-	see also 5628 line
50229	IGSF9	NM_020789.2	420	tcocccaattgacctgattacg	379025	-	see also 7968 line
50230	IGSF9	NM_020789.2	3387	cacatctgtgacagagaactatg	379040	-	see also 7968 line
50231	IL17D	NM_138284.1	381	gtgcctctgggctcacagaactct	407383	-	-
50232	IL17RC	NM_032732.2	938	tggacgcagatcattacccttga	401302	-	see also 22252 line
50233	IL17RC	NM_032732.2	831	aactgcactctggtctgaatt	401300	-	see also 22252 line
50234	IL17RE	NM_144640.2	668	gggtattctgggtgacctatct	410622	-	see also 22253 line
50235	IL17RE	NM_144640.2	548	aggacttctgcttaaaagacc	410620	-	see also 22253 line
50236	IL23A	NM_016584.2	471	agctgtagatcgagatttttc	358231	-	see also 22254 line
50237	IL23A	NM_016584.2	474	tgtcaggatcgagatttttca	358232	-	see also 22254 line
50238	IL23A	NM_016584.2	440	aggatcacacagggttgtatttt	358228	-	see also 22254 line
50239	IL29	NM_172140.1	626	ctcacggagagacctcaaatgtg	424271	-	-

図46 (続き)

1332

50240	IL29	NM_172140.1	197	tgcacattggcaggttcaaatc	424269	-	see also 50239 line
50241	IL29	NM_172140.1	200	cacattggcaggttcaaatctot	424270	-	see also 50239 line
50242	IL10	NM_024317.2	1116	acgggagcaggttggacacttcc	386249	-	see also 22255 line
50243	IL17	NM_012276.2	742	gtcggtaacatcagatacactct	337952	-	see also 22256 line
50244	IL17	NM_012276.2	577	ttcagatgctacggctatgaaaa	337949	-	see also 22256 line
50245	IMAGE345						
1454		NM_053052.2	1332	ctcaccttacgaaattagcatcc	405899	-	see also 22257 line
50246	IMAGE345						
1454		NM_053052.2	1348	agcatccgcgcagcggtttattgg	405901	-	see also 22257 line
50247	IMAGE345						
5200		NM_024006.2	304	cactacagctattgttaggttgc	385461	-	see also 22258 line
50248	IMAGE345						
5200		NM_024006.2	257	cagcatcctcaatcaatccaaca	385460	-	see also 22258 line
50249	IMAP1	NM_130759.2	635	gccgggtctgcttcttgataac	406924	-	see also 22259 line
50250	IMAP1	NM_130759.2	230	tggccagagagaggttcttctcc	406919	-	see also 22259 line
50251	IMMT	NM_006839.1	403	ttcagtcgggtccactaaaaac	336426	-	see also 4794 line
50252	IMMT	NM_006839.1	1313	tgcacatctgtgtattgatcagc	336445	-	see also 4794 line
50253	IMP-2	NM_006548.3	425	gccgtgtcaagtcacatatgc	335753	-	see also 4590 line
50254	IMP-2	NM_006548.3	738	cgcgggtagatcatcatagaaaa	335760	-	see also 4590 line
50255	IMP4	NM_033416.1	703	tcaggcaccaatgtgtataagaag	403834	-	see also 22262 line
50256	IMP4	NM_033416.1	262	atcccaaggttatgatcaatcc	403830	-	see also 22262 line
50257	INM01	NM_175075.2	786	aggaaactaactacgattaaaag	429002	-	see also 22263 line
50258	INM01	NM_175075.2	785	aaggaaactaactacgattaaaa	429001	-	see also 22263 line
50259	INM01	NM_175075.2	897	aggttggagagctccaaaacttg	429005	-	see also 22263 line
50260	INSIG2	NM_016133.2	531	atcgggtgtgtagcagctctttgt	356421	-	see also 22264 line
50261	INSIG2	NM_016133.2	829	gacaactggcaatgtacgaatgt	356432	-	see also 22264 line
50262	INSM2	NM_032594.2	1471	caggggattccgagatttctgt	400974	-	see also 22265 line
50263	INSM2	NM_032594.2	604	gcoggtccgcgcgagttcttc	400970	-	see also 22265 line
50264	INSM2	NM_032594.2	982	cagcccaactggggaggttcact	400971	-	see also 22265 line
50265	INVS	NM_014425.2	948	tgoaatataacgtcttatgataa	340597	-	see also 5671 line
50266	INVS	NM_014425.2	1811	tgtgtagcgcgatgaatgatcc	340627	-	see also 5671 line
50267	IRA1	NM_024665.2	1509	atgtagaccggagggatagtcac	388780	-	see also 8693 line
50268	IRA1	NM_024665.2	481	tgcgtaatgctctgtatgtac	388742	-	see also 8693 line
50269	IREM2	NM_181449.1	513	ggggaggtgttgaccccaaatc	432137	-	see also 22268 line
50270	IREM2	NM_181449.1	341	atcttactgtgtgcaaatcaga	432136	-	see also 22268 line
50271	IRF2BP1	NM_015649.1	1268	ggcttcttgggtcttaagtacc	354863	-	see also 22269 line
50272	IRF2BP1	NM_015649.1	1277	gggttcaagtacctgaatag	354864	-	see also 22269 line
50273	IRF2BP2	NM_182972.1	1597	gtccgtcccttcgcacaaattct	435508	-	see also 22270 line
50274	IRF2BP2	NM_182972.1	1313	ctgatatttagtagacacatgc	435505	-	see also 22270 line
50275	IRTA1	NM_031282.1	1189	gagccatgcaggggactact	396481	-	see also 22271 line
50276	IRTA1	NM_031282.1	1480	gtcgtgtgtgtgtatgatacc	396485	-	see also 22271 line
50277	IRTA2	NM_031281.1	2878	agctgaacacagttacacaaat	396465	-	see also 22272 line
50278	IRTA2	NM_031281.1	2871	caggggtgacccggaacagaagt	396461	-	see also 22272 line
50279	IRX2	NM_033267.1	1355	ggctacgagcccaagaagaatgc	403648	-	see also 22273 line

図46 (続き)

1333

50280	IPX2	NM_033267.1	770	tggagtgcaaggacaagtatga	403646	-	see also 22273 line
50281	ITGA1	NM_181501.1	117	tctacgtctgctgctatcttc	432183	-	see also 22274 line
50282	ITGA1	NM_181501.1	2043	cccgagatgtggcgtgtagtaaa	432258	-	see also 22274 line
50283	ITGA1	NM_181501.1	2216	taccgtgtcaacctagattcact	432263	-	see also 22274 line
50284	ITIH5	NM_030569.2	1585	aacggctcgtgagatcattgct	394661	-	see also 8889 line
50285	ITIH5	NM_030569.2	1492	ctctgacatcgcgcattcatttc	394660	-	see also 8889 line
50286	ITR	NM_180989.3	620	ggggacccatgcacatgatttt	432066	-	see also 22276 line
50287	ITR	NM_180989.3	676	tgttcaagctttagctaatfaca	432069	-	see also 22276 line
50288	JAM3	NM_032801.3	423	ggcggtcgtcagaaatactgg	401562	-	see also 22277 line
50289	JAM3	NM_032801.3	875	acctgaacattggcggaattatt	401571	-	see also 22277 line
50290	JM1	NM_014008.1	591	ctggctgtgcaggaattgagttc	339010	-	see also 5453 line
50291	JM1	NM_014008.1	1739	tgtcttcggaaagcctataagt	339015	-	see also 5453 line
50292	JM11	NM_033626.2	2046	tccacactcggaggagtttcaag	404145	-	see also 22279 line
50293	JM11	NM_033626.2	829	cagccaaggaggacgtagtctgc	404142	-	see also 22279 line
50294	JM4	NM_007213.1	435	tgcgctcgcgaaccttaagaac	337118	-	see also 22280 line
50295	JM4	NM_007213.1	112	atgtgtccacgcgcgtcatcaaca	337116	-	see also 22280 line
50296	JM5	NM_007075.1	1057	gcgccttcggtcgcgaactctcc	336943	-	see also 4945 line
50297	JM5	NM_007075.1	1056	tgcgccttcggtcgcgaactcttc	336942	-	see also 4945 line
50298	JMJD1	NM_018433.2	3747	gaocgatactaaagaaacgtct	371472	-	see also 22282 line
50299	JMJD1	NM_018433.2	3737	ctggtattagaccgctatttaa	371470	-	see also 22282 line
50300	JMY	NM_152405.1	510	agcacgattgattcagttagaag	416332	-	see also 9855 line
50301	JMY	NM_152405.1	1791	caacttctaccgatacagacc	416360	-	see also 9855 line
50302	JPHL1	NM_032452.1	2224	gaggaaagccctggggtataga	400350	-	see also 22284 line
50303	JWA	NM_006407.2	352	acgtctctcgcggatgaagaag	335395	-	see also 22285 line
50304	JWA	NM_006407.2	400	tgtgtatgttggcggactatttc	335396	-	see also 22285 line
50305	K5B	NM_173352.1	1257	agctgaacgagcagaagcttcc	424815	-	see also 22286 line
50306	K5B	NM_173352.1	1345	gtgcaccagccaggtcactatct	424816	-	see also 22286 line
50307	K6IRS3	NM_175068.2	234	tgggcaaggaggctatgatttgg	428980	-	see also 22287 line
50308	K6IRS3	NM_175068.2	233	gtggcagagagctatggatttg	428979	-	see also 22287 line
50309	K6IRS4	NM_175063.2	210	agggaaatcggcgtattttttca	428896	-	see also 22288 line
50310	K6IRS4	NM_175063.2	981	cgtgagggtccgcgcattatg	428900	-	see also 22288 line
50311	KAB	NM_014812.1	563	gcccogtggtaactcattatg	344217	-	see also 22289 line
50312	KAB	NM_014812.1	581	atgcccogtggtaactcattata	344215	-	see also 22289 line
50313	KCMF1	NM_020122.2	73	tgcgaggtcgcagatatagttg	375576	-	see also 7755 line
50314	KCMF1	NM_020122.2	512	tctctgtctgtagatcaaaaca	375592	-	see also 7755 line
50315	KCMF1	NM_020122.2	511	gtctctgtctgtagatcaaac	375591	-	see also 7755 line
50316	KCNJ1	NM_000525.2	1460	cagcgcttggcccatgtgac	329720	-	see also 22290 line
50317	KCNJ1	NM_000525.2	1134	acctcgcgagagcatgatcaco	329717	-	see also 22290 line
50318	KCP2	NM_173852.2	400	tgtgtgtactatcatacaaga	428502	-	see also 10122 line
50319	KCP2	NM_173852.2	270	atctgtcttggcaaggattc	428500	-	see also 10122 line
50320	KCP3	NM_173853.2	712	tccgggcatcacagaagattgg	428507	-	see also 50320 line
50321	KCP3	NM_173853.2	481	accccacagaatctatgatata	428504	-	see also 50320 line
50322	KCP3	NM_173853.2	480	gacccacagaatctatgatata	428503	-	see also 50320 line

voltage-gated
potassium channel

図46 (続き)

1334

50323	KCTD4	NM_198404.1	595	caagatcgttcacaaaggattaaag	437745	-	see also 10322 line
50324	KCTD4	NM_198404.1	596	acgatgttcacaaaggattaaaga	437746	-	see also 10322 line
50325	KCTD8	NM_198353.1	325	tgcacattagcagatggtttcc	437680	-	see also 10316 line
50326	KCTD8	NM_198353.1	1449	ttagatccctctctaaaaaagc	437691	-	see also 10316 line
50327	KCTD9	NM_017634.2	848	ttctgtttggaccccttgatata	359807	-	see also 22292 line
50328	KCTD9	NM_017634.2	885	ggcaatttaagccgtgtgaatct	359810	-	see also 22292 line
50329	KDEL1	NM_024089.1	1136	atgcctactacgatttgactga	385859	-	see also 22293 line
50330	KDEL1	NM_024089.1	1455	cagcttatcgctgccattttg	385868	-	see also 22293 line
50331	KENAE	NM_176816.2	835	ctggccatgtttgatatcaaa	429792	-	see also 10160 line
50332	KEO4	NM_006459.2	846	cacaagtgaccccggaatatct	335575	-	see also 4531 line
50333	KEO4	NM_006459.2	744	aagcgaattttgaaatcgaaga	335574	-	see also 4531 line
50334	KIAA0014	NM_014665.1	570	ggcgtagctgcacatgcattgc	341957	-	-
50335	KIAA0014	NM_014665.1	148	tgcacacgctgtgtcttgagc	341956	-	see also 50334 line
50336	KIAA0036	NM_014642.1	1895	aggatggcttagtatagaatta	341614	-	see also 22296 line
50337	KIAA0036	NM_014642.1	1890	tccaaaggatggccttgatag	341612	-	see also 22296 line
50338	KIAA0040	NM_014656.1	1284	tgcagggaagtacattatctaca	341805	-	see also 22297 line
50339	KIAA0040	NM_014656.1	1035	ttggcagctatgtgtccaatagc	341797	-	see also 22297 line
50340	KIAA0053	NM_014882.1	1666	gaattccactacgataacgtcc	345241	-	see also 6076 line
50341	KIAA0053	NM_014882.1	1662	aacggacctccactacgataac	345239	-	see also 6076 line
50342	KIAA0063	NM_014876.3	504	tggtagacacctcaacaagaagc	345096	-	see also 22299 line
50343	KIAA0063	NM_014876.3	322	aggagacaaggcccaatctgaat	345094	-	see also 22299 line
50344	KIAA0076	NM_014780.2	3190	cgcgcatttgggggttagagatc	343248	-	see also 22300 line
50345	KIAA0076	NM_014780.2	849	tggagtgacggccgagatgataca	343234	-	see also 22300 line
50346	KIAA0087	NM_014769.1	623	ggcagctctgagacattcaatt	343192	-	see also 22301 line
50347	KIAA0087	NM_014769.1	620	ggggccagctctgagacattcaat	343190	-	see also 22301 line
50348	KIAA0090	NM_015047.1	2333	ggcgtcaactggcgcgtatcatta	347507	-	see also 6205 line
50349	KIAA0090	NM_015047.1	2791	ttctogaatggaggtatctaca	347519	-	see also 6205 line
50350	KIAA0092	NM_014679.1	173	ttcgataaagccttccctaata	342121	-	see also 5881 line
50351	KIAA0092	NM_014679.1	943	atgatggatcatcaacagtatt	342136	-	see also 5881 line
50352	KIAA0095	NM_014669.1	1794	aagccgaggttcgatgatgc	342020	-	see also 5846 line
50353	KIAA0095	NM_014669.1	1014	tccgtgtggcgcctaattact	342009	-	see also 5846 line
50354	KIAA0101	NM_014736.3	267	aggtgtccctaaagattctga	342888	-	see also 22305 line
50355	KIAA0101	NM_014736.3	270	ttgtccctaaagattctga	342889	-	see also 22305 line
50356	KIAA0140	NM_014661.1	1022	gtgtctcttaacacaaagaagg	341887	-	see also 22306 line
50357	KIAA0140	NM_014661.1	1035	gacaagaaggctgggttaaaag	341888	-	see also 22306 line
50358	KIAA0141	NM_014773.1	972	agcaaggcgtctcttattata	343219	-	see also 22307 line
50359	KIAA0141	NM_014773.1	977	ggcgtctcttattacagtgg	343221	-	see also 22307 line
50360	KIAA0157	NM_032182.2	1039	caccagtgccgactgaagtac	398567	-	see also 9091 line
50361	KIAA0157	NM_032182.2	1040	accagtgccgactgaagtac	398568	-	see also 9091 line
50362	KIAA0196	NM_014846.1	1845	tgcgatactcgaagttcttc	344694	-	see also 6049 line
50363	KIAA0196	NM_014846.1	1846	ggcgatactcgaagttcttcca	344695	-	see also 6049 line
50364	KIAA0233	NM_014745.1	4142	ggcgcacatcagctacgtttta	342994	-	see also 22309 line
50365	KIAA0233	NM_014745.1	4143	ggcgcacatcagctacgttttag	342995	-	see also 22309 line
50366	KIAA0233	NM_014745.1	4144	ggcgcacatcagctacgttttaga	342996	-	see also 22309 line

図46 (続き)

1335

50367	KIAA0252	NM_015138.2	1263	aacgcgtgttcggttagattt	348580	-	see also 22310 line
50368	KIAA0252	NM_015138.2	1037	ttgaatcgggttcgattatcag	348574	-	see also 22310 line
50369	KIAA0258	NM_014785.1	959	ttcgtcactacatacaactagaac	343518	-	see also 5968 line
50370	KIAA0258	NM_014785.1	364	tactccacgcgaataattctattct	343503	-	see also 5968 line
50371	KIAA0266	NM_021645.1	2099	ttcgaatagaggcactatctca	381016	-	see also 22312 line
50372	KIAA0266	NM_021645.1	2450	ttggaagtccacaataataga	381018	-	see also 22312 line
50373	KIAA0274	NM_014845.4	541	atctataaggtcggagatacaaa	344577	-	see also 6047 line
50374	KIAA0274	NM_014845.4	2727	ctcggctttctcgcaagataaca	344652	-	see also 6047 line
50375	KIAA0276	NM_015115.1	711	ttgaacttcacgcgaatacaaaa	348203	-	see also 6254 line
50376	KIAA0276	NM_015115.1	514	accagaaacgtagttatgttgg	348201	-	see also 6254 line
50377	KIAA0319	NM_014809.1	1968	ctccgtcttaacgttgtctaac	343858	-	see also 22315 line
50378	KIAA0319	NM_014809.1	1522	atcggtcggagataacctaat	343841	-	see also 22315 line
50379	KIAA0319	NM_014809.1	1705	gtcgcgtcgactttatgtctca	343850	-	see also 22315 line
50380	KIAA0329	NM_014844.1	3521	gtgcctaaagggaagtcctatgg	344555	-	see also 22316 line
50381	KIAA0329	NM_014844.1	1762	gggcagtagcgtggatcagtaa	344533	-	see also 22316 line
50382	KIAA0355	NM_014686.1	2167	ctctgaatctgtgttcaagttcc	342175	-	see also 22317 line
50383	KIAA0355	NM_014686.1	1543	gggcacatctagactaaagagaaa	342162	-	see also 22317 line
50384	KIAA0390	NM_014717.1	2858	ttgtgagcaacgggtgtgaatttc	342796	-	see also 5911 line
50385	KIAA0390	NM_014717.1	3300	ggcctgttacaatacaacaaag	342809	-	see also 5911 line
50386	KIAA0391	NM_014672.1	382	ttcgaagctttccgaactttgg	342046	-	see also 22318 line
50387	KIAA0391	NM_014672.1	721	cagggaggtgggataaacttaag	342057	-	see also 22318 line
50388	KIAA0399	NM_015113.2	6900	accgcgtcgtttatgtgataa	348166	-	see also 22319 line
50389	KIAA0399	NM_015113.2	4158	gtgtatgcactccagatttata	348109	-	see also 22319 line
50390	KIAA0406	NM_014657.1	1055	gaactgcgcgaagtgtgactatcc	341829	-	see also 5826 line
50391	KIAA0406	NM_014657.1	1210	aggccttagtggagactagaataa	341835	-	see also 5826 line
50392	KIAA0408	NM_014702.1	1283	ttcgaaaggcggcttaacataga	342378	-	see also 22321 line
50393	KIAA0408	NM_014702.1	1716	aacttogaagaagtgtgtatcatot	342398	-	see also 22321 line
50394	KIAA0408	NM_014702.1	2315	gtctcgcagttatcgaatatg	342425	-	see also 22321 line
50395	KIAA0409	NM_015324.2	640	gtggcggaaaccggcaaaagaata	351576	-	see also 22322 line
50396	KIAA0431	NM_015324.2	606	ccccaaacccctcctacatta	351574	-	see also 22322 line
50397	KIAA0431	NM_015251.1	1894	aaggtaacttcattatagctgc	350298	-	see also 22323 line
50398	KIAA0431	NM_015251.1	1546	ctgatctcctggccttagattcaga	350288	-	see also 22323 line
50399	KIAA0476	NM_014856.1	937	ggcgaaggcaactcctactactta	344817	-	see also 22324 line
50400	KIAA0476	NM_014856.1	4166	cgggtacgctgcccgatttct	344843	-	see also 22324 line
50401	KIAA0483	NM_015176.1	552	atcgtgtgttgagatatgtcaat	348929	-	see also 6268 line
50402	KIAA0483	NM_015176.1	275	cagctcgcctgtgttttaaaag	348918	-	see also 6268 line
50403	KIAA0483	NM_015176.1	427	agctcgtcatcgagacatttgg	348927	-	see also 6268 line
50404	KIAA0513	NM_014732.1	649	ccccgtggctcgtactcgaact	342880	-	see also 22326 line
50405	KIAA0513	NM_014732.1	1686	tccggttcaacgagaacatcacc	342884	-	see also 22326 line
50406	KIAA0555	NM_014790.1	1529	gaaccgtttattggctatgaga	343590	-	see also 22327 line
50407	KIAA0555	NM_014790.1	1004	aacatgagcagcccaaacagaga	343576	-	see also 22327 line
50408	KIAA0555	NM_014790.1	1955	gagagagcagccctccatttaa	343600	-	see also 22327 line
50409	KIAA0562	NM_014704.1	2194	gacgcgggttcgaattttttgg	342621	-	see also 5897 line
50410	KIAA0562	NM_014704.1	2189	cgcgagacggcagttcgaattat	342618	-	see also 5897 line

図46 (続き)

1336

50411	KIAA0582	NM_015147.1	1370	tgcgaaggaccggctgactatag	348613	-	see also 22329 line
50412	KIAA0582	NM_015147.1	1864	atgcctgtatgactctatcttgg	348626	-	see also 22329 line
50413	KIAA0586	NM_014749.1	4668	gtgatagatcggacacaaatt	343121	-	see also 22330 line
50414	KIAA0586	NM_014749.1	793	aaccgcagctccgttgataaagg	343012	-	see also 22330 line
50415	KIAA0590	NM_014714.1	3137	cgggcagcggcggtgcactctaca	342675	-	see also 22331 line
50416	KIAA0590	NM_014714.1	2327	gagaccctgcggagactttggg	342670	-	see also 22331 line
50417	KIAA0605	NM_014694.1	1121	cggctgtgcgggggtgttttct	342363	-	see also 22332 line
50418	KIAA0605	NM_014694.1	2322	gccaatgtgtccctctatgatgg	342373	-	see also 22332 line
50419	KIAA0605	NM_014694.1	1272	ggcagagacatccagatgtaga	342365	-	see also 22332 line
50420	KIAA0625	NM_015046.4	3210	ctcccgtagacaggttatatta	347307	-	see also 6202 line
50421	KIAA0625	NM_015046.4	686	ttccggttgaggctatcttgact	347231	-	see also 6202 line
50422	KIAA0625	NM_015046.4	1898	ctctaggttgccagttgactagt	347273	-	see also 6202 line
50423	KIAA0632	NM_015545.2	2087	cgggttcgcggcctattacaagc	353865	-	see also 22334 line
50424	KIAA0632	NM_015545.2	398	tgggaccctctctgacaaatct	353848	-	see also 22334 line
50425	KIAA0635	NM_014645.1	1382	agcgacgtgaaaaaagttcaat	341632	-	see also 5819 line
50426	KIAA0635	NM_014645.1	1473	ttcagtgatgctagaagaattt	341637	-	see also 5819 line
50427	KIAA0638	NM_015157.1	3605	ccctctcatgcaccactctatcc	348646	-	see also 22336 line
50428	KIAA0638	NM_015157.1	3609	ctcatgcaccactctatctaca	348647	-	see also 22336 line
50429	KIAA0643	NM_024793.1	756	cacaaaccaagcccaatcgaaagg	390762	-	see also 22337 line
50430	KIAA0643	NM_024793.1	497	ctcaagagtggaagttaacagta	390758	-	see also 22337 line
50431	KIAA0643	NM_024793.1	716	gacgagatgacgatttgggaaga	390760	-	see also 22337 line
50432	KIAA0644	NM_014817.1	1974	gtccgaccatcgacttcaaca	344309	-	see also 22338 line
50433	KIAA0644	NM_014817.1	1428	ggccctgcgggcaaatatcctgg	344306	-	see also 22338 line
50434	KIAA0648	NM_015200.1	2254	cagatcagctgcagcttaattcc	349771	-	see also 22339 line
50435	KIAA0648	NM_015200.1	1655	atgtacggaactatggatttg	349750	-	see also 22340 line
50436	KIAA0649	NM_014811.1	1424	ctcccggttagcgaagatgaac	344181	-	see also 22340 line
50437	KIAA0649	NM_014811.1	1425	tcgccggttagcgaagatgaacg	344182	-	see also 22341 line
50438	KIAA0652	NM_014741.1	1463	gacctgacgagttggatatatac	342913	-	see also 22341 line
50439	KIAA0652	NM_014741.1	440	tcacacgggttcagattgttca	342893	-	see also 22341 line
50440	KIAA0672	NM_014859.1	2692	atcgggcgacactcagtaactga	344937	-	see also 6061 line
50441	KIAA0672	NM_014859.1	1677	tcagatcacgtgaaccataatg	344929	-	see also 6061 line
50442	KIAA0683	NM_016111.1	1988	cccggttcgagactatctgaac	356294	-	see also 22343 line
50443	KIAA0683	NM_016111.1	253	gcggtccgggaagccattcagc	356291	-	see also 22343 line
50444	KIAA0683	NM_016111.1	1788	gaccacgtctgaggacacatagagc	356293	-	see also 22343 line
50445	KIAA0685	NM_014678.2	772	aaccgaacaggtgattacgtttt	342103	-	see also 22344 line
50446	KIAA0685	NM_014678.2	773	accgaacaggtgattacgtttt	342104	-	see also 22344 line
50447	KIAA0690	NM_015179.2	1509	ggcctgaagctacaattccatgc	348964	-	see also 22345 line
50448	KIAA0690	NM_015179.2	103	ctgggttcagctaaattgaag	348951	-	see also 22345 line
50449	KIAA0720	NM_020631.2	892	cagtcgcttcagcgcttttca	377815	-	see also 22346 line
50450	KIAA0720	NM_020631.2	1106	agctggcgaggagctcattgatgg	377816	-	see also 22346 line
50451	KIAA0720	NM_020631.2	2043	tgtctgtggcagagatttgtgc	377819	-	see also 22347 line
50452	KIAA0738	NM_014719.1	737	atcccgattgttgattgtga	342828	-	see also 22347 line
50453	KIAA0738	NM_014719.1	693	aaggagacacgaggtttctttaa	342826	-	see also 22347 line
50454	KIAA0746	NM_015187.1	2371	aaccacagatgcgtcatacaatct	349521	-	see also 6272 line

図 46 (続き)

1337

50455	KIAA0746	NM_015187.1	1055	ttgactggtatctcttttaac	349490	-	see also 6272 line
50456	KIAA0748	NM_014796.1	1039	tgccatccatcaggattctgcc	343663	-	see also 5991 line
50457	KIAA0753	NM_014804.1	240	aacttgccatcogattcttgg	343720	-	see also 5998 line
50458	KIAA0753	NM_014804.1	2726	ctccctagccgagattctcaac	343779	-	see also 5998 line
50459	KIAA0753	NM_014804.1	1551	gtgttagccggtggcaaaaacaaa	343752	-	see also 5998 line
50460	KIAA0759	NM_015305.2	1345	atcttctgcggggaccataattc	351330	-	see also 6320 line
50461	KIAA0759	NM_015305.2	1772	gcctccaccctgagctcagtatat	351338	-	see also 6320 line
50462	KIAA0763	NM_014869.1	2231	gtccccggagcagatcatcaagt	345061	-	see also 22352 line
50463	KIAA0763	NM_014869.1	467	ttctctagccaagtgaatcaact	345053	-	see also 22352 line
50464	KIAA0776	NM_015323.2	596	cacgtatcctgtgactattcagt	351520	-	see also 6359 line
50465	KIAA0776	NM_015323.2	1573	ctcgaggtgtgtacgttcagtatt	351540	-	see also 6359 line
50466	KIAA0776	NM_015323.2	2325	tgccagttactactgtaaaagagc	351563	-	see also 6359 line
50467	KIAA0831	NM_014924.2	559	atcttcgacgattcccatattata	345770	-	see also 22353 line
50468	KIAA0831	NM_014924.2	1098	ctgtatcaccctcaggatcttaatt	345785	-	see also 22353 line
50469	KIAA0853	NM_015070.2	3578	gaagcctcagctgactatagaag	347803	-	see also 22354 line
50470	KIAA0853	NM_015070.2	2865	atgcgtgcacagagacattatagg	347794	-	see also 22355 line
50471	KIAA0861	NM_015078.2	605	ttcacggctacatcgacaaaagc	347885	-	see also 22355 line
50472	KIAA0861	NM_015078.2	2574	gaactgaatgtccggagcagatttg	347924	-	see also 22355 line
50473	KIAA0874	NM_015208.2	6374	aacgacgactttgattgactcc	349995	-	see also 6278 line
50474	KIAA0874	NM_015208.2	4025	gagcggattaaaccacatatac	349918	-	see also 6278 line
50475	KIAA0889	NM_015377.1	535	gacggggcatccggagctactatag	351936	-	see also 22357 line
50476	KIAA0889	NM_015377.1	536	acggggcatccggagctactatag	351937	-	see also 22357 line
50477	KIAA0893	NM_014969.3	2210	agcgggtgtactgttttaaaagg	346528	-	see also 6158 line
50478	KIAA0893	NM_014969.3	2209	cagcgggtgtactgttttaaaag	346527	-	see also 6158 line
50479	KIAA0903	NM_015252.1	2644	tactcatatagtagatctaga	350358	-	see also 6292 line
50480	KIAA0903	NM_015252.1	3487	aagcgacggtataactgaactca	350387	-	see also 6292 line
50481	KIAA0907	NM_014949.1	1155	ccctacgggagtaccaaagcatagt	346277	-	see also 6147 line
50482	KIAA0907	NM_014949.1	518	gggcccagacacgggaattagtgg	346264	-	see also 6147 line
50483	KIAA0922	NM_015196.2	4729	cccgttcggccttatgaacc	349649	-	see also 6276 line
50484	KIAA0922	NM_015196.2	2504	accgcagcggaccctagaatttcg	349600	-	see also 6276 line
50485	KIAA0922	NM_015196.2	4728	accggttcggccttatgaac	349648	-	see also 6276 line
50486	KIAA0963	NM_014963.1	3251	tcccgttatcggagagatctacg	346398	-	see also 22362 line
50487	KIAA0963	NM_014963.1	2019	ggcgtttctctgtcgttaattca	346395	-	see also 22362 line
50488	KIAA0970	NM_014923.2	2407	cagactacgtgcagtaacaaaa	345730	-	see also 22363 line
50489	KIAA0970	NM_014923.2	1344	tagccaattggcaccacaaattca	345696	-	see also 22363 line
50490	KIAA0971	NM_014929.1	827	gtgacccaggaacgtatcaatga	345915	-	see also 22364 line
50491	KIAA0971	NM_014929.1	831	ccagggaacgtatcaatgagtgt	345917	-	see also 22364 line
50492	KIAA0977	NM_014900.1	2507	tacccaaattggcattgactact	345430	-	see also 22365 line
50493	KIAA0977	NM_014900.1	986	ccctgcacccctctagtataat	345388	-	see also 22365 line
50494	KIAA0982	NM_014023.1	168	ttcgactctcgccaaacacaaac	339281	-	see also 5462 line
50495	KIAA0982	NM_014023.1	1429	aaccgacaagtggactgtttga	339312	-	see also 5462 line
50496	KIAA1007	NM_016284.2	2046	tgcttcacgtcgtgaatacctca	356712	-	see also 6780 line
50497	KIAA1007	NM_016284.2	1875	tcctcatttcgccaacttata	356705	-	see also 6780 line
50498	KIAA1007	NM_016284.2	5888	ggcgcgacagtagccaagctttc	356836	-	see also 6780 line

図46 (続き)

1338

50499	KIAA1018	NM_014967.1	389	atggtcctagatgacttaa	346426	-	see also 6156 line
50500	KIAA1018	NM_014967.1	1345	aacacccgctcactactacc	346454	-	see also 6156 line
50501	KIAA1023	NM_152558.1	1916	ctccgagattccgagatttg	418107	-	see also 22369 line
50502	KIAA1023	NM_152558.1	331	atgacgagatttgagttaaag	418094	-	see also 22369 line
50503	KIAA1033	NM_015275.1	133	gacgacgagctcgcaaaaattca	350721	-	see also 22370 line
50504	KIAA1033	NM_015275.1	262	ttcaattcttgactatagcatt	350729	-	see also 22370 line
50505	KIAA1043	NM_015281.1	3698	gacctccgacatagacaaact	350888	-	see also 6311 line
50506	KIAA1043	NM_015281.1	2438	accgggaagcagtaatacagc	350878	-	see also 6311 line
50507	KIAA1049	NM_014972.1	275	accgtctcgagctgaataacatt	346556	-	see also 22372 line
50508	KIAA1049	NM_014972.1	973	agcgtacctgcccgtttcaaga	346563	-	see also 22372 line
50509	KIAA1049	NM_014972.1	900	gtctatgagccgaacacacatcg	346562	-	see also 22372 line
50510	KIAA1052	NM_014956.1	3347	cagctcgagaaaattcttgatga	346337	-	see also 6151 line
50511	KIAA1068	NM_015332.2	620	ctggtcacaggactactctgacc	351626	-	see also 22374 line
50512	KIAA1068	NM_015332.2	530	ccctagggaaccacactcttc	351625	-	see also 22374 line
50513	KIAA1074	NM_014915.1	3871	ctggaggttaactacacttatcg	346610	-	see also 22375 line
50514	KIAA1074	NM_014915.1	3875	aggttaactgaacttatctgatt	346612	-	see also 22375 line
50515	KIAA1115	NM_014931.1	2200	aacgcaacctacttgagatag	345968	-	see also 22376 line
50516	KIAA1117	NM_015018.2	1647	ccctgagacgccatccaaaacc	345959	-	see also 22376 line
50517	KIAA1117	NM_015018.2	1040	ggccactcgccagctgatgatca	346803	-	see also 22377 line
50518	KIAA1117	NM_015018.2	6230	atggctcgccagaaactctgaag	346945	-	see also 22377 line
50519	KIAA1143	NM_020696.1	143	gaccacccgtagagactaagaga	378155	-	see also 22378 line
50520	KIAA1143	NM_020696.1	148	accgtagagactaagaaattca	378158	-	see also 22378 line
50521	KIAA1160	NM_020701.1	754	cagagcccgagttagtggaagaagt	378179	-	see also 22379 line
50522	KIAA1160	NM_020701.1	231	aggccatcgacggccttagcaaga	378165	-	see also 22379 line
50523	KIAA1181	NM_020462.1	327	gagttgggtggccttgacatca	377675	-	see also 22380 line
50524	KIAA1181	NM_020462.1	443	cagcatcaacaagatgatgaagc	377677	-	see also 22380 line
50525	KIAA1185	NM_020710.1	1204	ggcccccacagaccctcaagattg	378262	-	see also 22381 line
50526	KIAA1185	NM_020710.1	1463	ttgttttggagagtaacaagtc	378264	-	see also 22381 line
50527	KIAA1191	NM_020444.2	390	gtccctgcccactcgggatatacc	377474	-	see also 22382 line
50528	KIAA1191	NM_020444.2	624	ggctaagctcaccatgtctatca	377476	-	see also 22382 line
50529	KIAA1191	NM_020444.2	1011	accgagatcccttcagaaagtagc	377477	-	see also 22382 line
50530	KIAA1194	NM_015455.2	740	aacaacctgttacgagttctacc	353193	-	see also 22383 line
50531	KIAA1194	NM_015455.2	454	ccctcgagagatgtatacaaatca	353185	-	see also 22383 line
50532	KIAA1199	NM_018689.1	519	gaccacgacgagccgattgtttt	372550	-	see also 7562 line
50533	KIAA1199	NM_018689.1	1235	gacggaggttgctgatcatgata	372578	-	see also 7562 line
50534	KIAA1199	NM_018689.1	520	accacgacgagcagattgttttg	372551	-	see also 7562 line
50535	KIAA1219	NM_020336.1	1202	gagcgggaatgcgcgaagaattga	376558	-	see also 22385 line
50536	KIAA1219	NM_020336.1	2662	accgggaagcgcagccactgattct	376606	-	see also 22385 line
50537	KIAA1221	NM_032186.2	3687	gagatagtccttgattgatca	398631	-	see also 22386 line
50538	KIAA1221	NM_032186.2	956	tcgttatccgagattgttcta	398601	-	see also 22386 line
50539	KIAA1244	NM_020340.2	761	ctgtggctcggactatctattac	376691	-	see also 22387 line
50540	KIAA1244	NM_020340.2	759	acctggctcggactctatt	376690	-	see also 22387 line
50541	KIAA1279	NM_015634.1	744	tcctatgagtgaggctatcaatg	354784	-	see also 22388 line
50542	KIAA1279	NM_015634.1	66	gtgcgggttggaactgcataaaa	354771	-	see also 22388 line

図46 (続き)

1339

50543	KIAA1280	NM_015691.2	2068	tccgcatgtctgtcggattattc	355115	-	see also 22389 line
50544	KIAA1280	NM_015691.2	2962	cagcccttcgctcttaaggtga	355124	-	see also 22389 line
50545	KIAA1287	NM_020748.1	2298	ggcgaatgctctgcgaataaat	378425	-	see also 7930 line
50546	KIAA1287	NM_020748.1	1884	tacttactctgcgtcgaaatct	378410	-	see also 7930 line
50547	KIAA1295	NM_017963.2	368	aggccacgcgaataaatcaattt	364898	-	see also 22391 line
50548	KIAA1295	NM_017963.2	369	ggccacgccatagaatcaatttc	364899	-	see also 22391 line
50549	KIAA1318	NM_020769.1	1132	accgcgctcatgcagatctaga	378629	-	see also 22392 line
50550	KIAA1318	NM_020769.1	3227	gtgtgcgaactctagatctatg	378651	-	see also 22392 line
50551	KIAA1322	NM_020773.1	1945	ctgtcgcgatgggaagattcc	378775	-	see also 7950 line
50552	KIAA1322	NM_020773.1	1362	tagccattggcaacgagttaaat	378756	-	see also 7950 line
50553	KIAA1324	NM_020775.2	697	caocggttaactcgaataactat	378869	-	see also 22394 line
50554	KIAA1324	NM_020775.2	2512	accggacgctgctctctttata	378912	-	see also 22394 line
50555	KIAA1336	NM_020779.2	596	atggttcgagacagtaaatgtct	378941	-	see also 7964 line
50556	KIAA1336	NM_020779.2	2563	aacgcttagctgaatgttactat	378997	-	see also 7964 line
50557	KIAA1383	NM_019090.1	1544	tacactaagactcagctttaagc	375179	-	see also 22396 line
50558	KIAA1383	NM_019090.1	518	gggacgtttcccccgcataatc	375157	-	see also 22396 line
50559	KIAA1387	NM_020463.1	464	gtccgacggatcactactcttgg	377679	-	see also 7879 line
50560	KIAA1387	NM_020463.1	1315	aacggcgtgaattggttaatttt	377698	-	see also 7879 line
50561	KIAA1387	NM_020463.1	2021	gtcttactgcccataatgttg	377718	-	see also 22397 line
50562	KIAA1404	NM_021035.1	1748	tacgaacttaccctcctaataga	380405	-	see also 22397 line
50563	KIAA1404	NM_021035.1	2217	tccgaaggccctacatgagtac	380417	-	see also 22398 line
50564	KIAA1407	NM_020817.1	200	atcgtcgaaacgggttcacaagg	379147	-	see also 22398 line
50565	KIAA1407	NM_020817.1	2886	tggaaaggctaccacgagctatct	379185	-	see also 22398 line
50566	KIAA1446	NM_020836.2	246	caggatttcaggaacactacatcag	379382	-	see also 22399 line
50567	KIAA1449	NM_020839.2	151	agcggctcgagactctctcataa	379392	-	see also 7986 line
50568	KIAA1449	NM_020839.2	152	ggcggctcgagactctctcataag	379393	-	see also 7986 line
50569	KIAA1465	NM_020851.1	236	tccggagactcgcttacacaaga	379610	-	see also 22401 line
50570	KIAA1465	NM_020851.1	964	cccggtgtggcacgtagtcttag	379620	-	see also 22401 line
50571	KIAA1465	NM_020851.1	238	cggggactcgcttacacaaggagt	379611	-	see also 22401 line
50572	KIAA1468	NM_020854.2	811	atgtcagcagatagctggttagg	379648	-	see also 7995 line
50573	KIAA1468	NM_020854.2	1903	tggcgctttgcccgaacatttgg	379680	-	see also 7995 line
50574	KIAA1508	NM_020880.2	1882	atctttaccgcccaaaaatcacc	379872	-	see also 22403 line
50575	KIAA1508	NM_020880.2	837	ctggacgaagcctctcaaatcc	379863	-	see also 22403 line
50576	KIAA1518	NM_015493.3	1969	cccggaaggcgtgcgatctatca	353567	-	see also 22404 line
50577	KIAA1518	NM_015493.3	2720	tccggcttggaacatcaatgc	353572	-	see also 22404 line
50578	KIAA1524	NM_020890.1	1202	ctgttcctcggtcgatcggtttg	380022	-	see also 8016 line
50579	KIAA1524	NM_020890.1	500	tacgttcctgatagatcacattc	379988	-	see also 8016 line
50580	KIAA1533	NM_020895.2	399	cacttataagcagagtaatgagg	380073	-	see also 22406 line
50581	KIAA1533	NM_020895.2	968	ggcattgcacgcccaaccttcc	380076	-	see also 22406 line
50582	KIAA1536	NM_020898.1	1343	ggagtccagatactctcgattgg	380094	-	see also 22407 line
50583	KIAA1536	NM_020898.1	95	tggagtcactttctcaatgttag	380085	-	see also 22407 line
50584	KIAA1587	NM_020932.1	2839	tacttgagtcagcgcgtatctaga	380193	-	see also 8037 line
50585	KIAA1587	NM_020932.1	1475	accggacccctccaaagtgttcc	380158	-	see also 8037 line
50586	KIAA1598	NM_018330.2	490	cacaagtccaaagttacgttcc	370436	-	see also 22409 line

図46 (続き)

1340

50587	KIAA1598	NM_018330.2	564	aagccgaaccagttgtagtta	370437	-	see also 22409 line
50588	KIAA1608	NM_024820.1	1330	gtgatttagatcttcaatcc	391100	-	see also 8765 line
50589	KIAA1608	NM_024820.1	1075	tcaccaacagcgtgatctctcc	391094	-	see also 8765 line
50590	KIAA1609	NM_020947.2	222	gccgaatgtctcaataatcc	380213	-	see also 22411 line
50591	KIAA1609	NM_020947.2	721	ccccaatgtggcattctcga	380217	-	see also 22411 line
50592	KIAA1609	NM_020947.2	221	agccgaatgtctcatccaatc	380212	-	see also 22411 line
50593	KIAA1622	NM_020958.2	367	aacaagtgattgcaaatctcc	380219	-	-
50594	KIAA1622	NM_020958.2	379	tgcataatctccattttgatgc	380220	-	see also 50593 line
50595	KIAA1627	NM_020961.2	1192	cagttggaccacogcttacaat	380276	-	see also 22412 line
50596	KIAA1627	NM_020961.2	621	tacttacaagccgatatagaagc	380263	-	see also 22412 line
50597	KIAA1701	NM_030639.1	1511	ttgttagcttacttaagtcaact	394795	-	see also 8914 line
50598	KIAA1712	NM_030633.1	351	gtgtcogctgtctaaattatcc	394735	-	see also 22414 line
50599	KIAA1712	NM_030633.1	822	gtgttgattctgcaacttgataa	394748	-	see also 22414 line
50600	KIAA1715	NM_030650.1	583	gacggctaaattactcttgaaa	394836	-	see also 8922 line
50601	KIAA1715	NM_030650.1	948	aacgagtgctgttgatagaatt	394843	-	see also 8922 line
50602	KIAA1720	NM_030645.1	1020	ggcgctcatggctgacaaagacc	394823	-	see also 22416 line
50603	KIAA1720	NM_030645.1	830	aggaagtgcggcgaggaactgaat	394820	-	see also 22416 line
50604	KIAA1737	NM_033426.2	1030	cactgtccgctaattatagctca	403889	-	see also 9424 line
50605	KIAA1737	NM_033426.2	1137	accctagttagctctacataatc	403893	-	see also 9424 line
50606	KIAA1737	NM_033426.2	1136	taccctagttagctctacataat	403892	-	see also 9424 line
50607	KIAA1754	NM_033397.1	1706	tagcggattctccctacatgctc	403778	-	see also 22418 line
50608	KIAA1754	NM_033397.1	890	gaccaagctcggggagacatgc	403776	-	see also 22418 line
50609	KIAA1754	NM_178495.3	805	agcatgaacggcgcttgattcc	430836	-	see also 22419 line
50610	KIAA1754	NM_178495.3	1926	atccctaagacatttaggaatgc	430847	-	see also 22419 line
50611	KIAA1754	NM_178495.3	1401	gcccttgtggcccaacaagtga	430842	-	see also 22419 line
50612	KIAA1796	NM_032439.1	364	gaccggagcgggacaaatcaca	400284	-	see also 9189 line
50613	KIAA1797	NM_017794.2	5069	atcggaatgcccggttactaag	362575	-	see also 22420 line
50614	KIAA1797	NM_017794.2	5259	tgcctaatacggcggtttgaaga	362581	-	see also 22420 line
50615	KIAA1797	NM_017794.2	5258	atcccaatacggcggtttgaag	362580	-	see also 22420 line
50616	KIAA1827	NM_032423.1	2347	cagcctaataacccatcagttaa	400212	-	see also 22421 line
50617	KIAA1827	NM_032423.1	2841	ataaagcatcacccttacaaga	400218	-	see also 22421 line
50618	KIAA1892	NM_015397.1	637	cacgtattgtcgtagatgctcc	352271	-	see also 6404 line
50619	KIAA1892	NM_015397.1	743	atcgagctgaatcctctagaac	352273	-	see also 6404 line
50620	KIAA1892L	NM_178470.2	1150	ctgcctacttcgggataatgt	430831	-	see also 22423 line
50621	KIAA1892L	NM_178470.2	1152	gcctacttcgggataatgtgt	430832	-	see also 22423 line
50622	KIAA1893	NM_052899.1	2538	cgggaactcggcacaactcacc	404786	-	see also 22424 line
50623	KIAA1893	NM_052899.1	657	cgattccacttccataggaaag	404772	-	see also 22424 line
50624	KIAA1913	NM_052913.2	3437	gtcgttgtagtgcagtaagaat	405309	-	see also 22425 line
50625	KIAA1913	NM_052913.2	3547	tgtctcgtcacactcaaatgcc	405311	-	see also 22425 line
50626	KIAA1919	NM_153369.1	889	tgtgttatcggtactacatgt	423136	-	see also 22426 line
50627	KIAA1919	NM_153369.1	447	tgggtcgtgccttggatatttg	423115	-	see also 22426 line
50628	KIAA1924	NM_153239.2	643	gaaggagacatacctgtatgtgc	422467	-	see also 22427 line
50629	KIAA1924	NM_153239.2	729	aagtcacogtgtgtttctcc	422468	-	see also 22427 line
50630	KIAA2010	NM_017936.2	1727	tcggagagtgtagtattatg	364347	-	see also 22428 line

図46 (続き)

1341

50631	KIAA2010	NM_017936.2	292	agagaaaggtctctacttttaga	364301	-	see also 22428 line
50632	KIAA2024	NM_172070.2	2186	tgcattcggttaattatcatcttc	424255	-	see also 22429 line
50633	KIAA2024	NM_172070.2	1213	tgcgcctttatagcattgactct	424234	-	see also 22429 line
50634	KIBRA	NM_015238.1	2885	gcggcgtgaatagaggtatgatt	350157	-	see also 22430 line
50635	KIBRA	NM_015238.1	2036	tgggtgcgaccccggaatcagatt	350149	-	see also 22430 line
50636	KIF24	NM_018278.1	442	tgaatacttgggggatttgata	369650	-	see also 22431 line
50637	KIF24	NM_018278.1	149	aggagccigcgcatcaaatcca	369641	-	see also 22431 line
50638	KIRREL	NM_018240.3	1810	atctactctgtgttaagatga	368892	-	see also 22432 line
50639	KIRREL	NM_018240.3	1815	ctctgtgttaagatgattgg	368893	-	see also 22432 line
50640	KIRREL2	NM_032123.4	1992	cccaaccaacgggttactacaag	397896	-	see also 22433 line
50641	KIRREL2	NM_032123.4	1991	acccaaccaacgggttactacaag	397895	-	see also 22433 line
50642	KIRREL3	NM_032531.1	205	tgcgcacatcccgatacagatgg	400554	-	see also 9238 line
50643	KIRREL3	NM_032531.1	717	gacgtcggtccaccattgacatcc	400558	-	see also 9238 line
50644	KLF8	NM_007250.2	442	gtgatattgggtaaacatcataa	337318	-	see also 22435 line
50645	KLF8	NM_007250.2	653	aagaaacttttggtagtatttc	337327	-	see also 22435 line
50646	KLHDC1	NM_172193.1	768	atcggtcagtcacatcttaaca	424295	-	see also 10039 line
50647	KLHDC1	NM_172193.1	765	aacatcggtcagtcacatctta	424294	-	see also 10039 line
50648	KLHDC2	NM_014315.1	830	tgggaacttttgaattogata	340164	-	see also 5618 line
50649	KLHDC2	NM_014315.1	849	aagagcaataccaataaagtct	340159	-	see also 5618 line
50650	KLHDC2	NM_014315.1	477	aagtaagagattatgactctt	340151	-	see also 5618 line
50651	KLHDC3	NM_057161.2	1202	gcggtgattcagtaataacatga	406116	-	see also 22438 line
50652	KLHDC3	NM_057161.2	284	gagacactgcgcagatagatgt	406100	-	see also 22438 line
50653	KLIP1	NM_024629.2	1195	accaaacgtaaaaggaacagatg	388278	-	see also 22439 line
50654	KLIP1	NM_024629.2	544	tacaaacgctgattgatttc	388255	-	see also 22439 line
50655	KR-ZNF1	NM_198457.1	1484	ccacctgtgaagacatactaga	437871	-	-
50656	KR-ZNF1	NM_198457.1	1294	tctcagctggcaagacataaaa	437870	-	see also 50655 line
50657	KRT25A	NM_181534.2	1325	aggtagacaaacgcagcaaaaata	432413	-	see also 22440 line
50658	KRT25A	NM_181534.2	1230	tgggggttaaaagtctaaagatt	432409	-	see also 22440 line
50659	KRT25B	NM_181539.2	424	tcccggaacacacgcatatgaat	432571	-	see also 22441 line
50660	KRT25B	NM_181539.2	1424	gagcaacgagtaaccttctaagc	432587	-	see also 22441 line
50661	KRT25C	NM_181537.2	1225	aagatggctctgttctaaatca	432566	-	see also 22442 line
50662	KRT25C	NM_181537.2	1296	accattgtcaaaaacagttgtga	432569	-	see also 22442 line
50663	KRT25D	NM_181535.2	797	tagacctgcggtttttgtgaac	432423	-	see also 22443 line
50664	KRT25D	NM_181535.2	453	cagatatcacctaaacattgagg	432418	-	see also 22443 line
50665	KRT3	NM_057088.1	1220	atggggatgacctaaagaataacc	406095	-	see also 22444 line
50666	KRT3	NM_057088.1	932	tggacagtgccctatatgaacaag	406094	-	see also 22444 line
50667	KRT6L	NM_175834.2	42	ctccgtctctggcacaacatact	429272	-	see also 22445 line
50668	KRT6L	NM_175834.2	207	cagccgaagcctctataacttgg	429275	-	see also 22445 line
50669	KRTAP12-3	NM_198697.1	223	agctgcagggcccatcatatgt	439880	-	see also 22446 line
50670	KRTAP13-2	NM_181621.2	269	gtccttgcaagaagacttactct	432613	-	-
50671	KRTAP13-3	NM_181622.1	296	ctcgggggttttggatccaatagc	432617	-	see also 22447 line

図46 (続き)

1342

50672	KRTAP13-3	NM_181622.1	290	ttgggtctctcgggggtttggatcc	432616	-	see also 22447 line
50673	KRTAP13-4	NM_181600.1	452	gtggatctcgtctctatcaattc	432591	-	see also 22448 line
50674	KRTAP13-4	NM_181600.1	448	atctgtggatctcgtctctatca	432589	-	see also 22448 line
50675	KRTAP15-1	NM_181623.1	257	cccgcagactaactacataaga	432626	-	see also 22449 line
50676	KRTAP15-1	NM_181623.1	260	ggcagactaactacataagatcc	432628	-	see also 22449 line
50677	KRTAP15-1	NM_181623.1	259	cgccagactaactacataagatc	432627	-	see also 22449 line
50678	KRTAP17-1	NM_031964.1	339	cacacctatcgacacacaaat	397549	-	-
50679	KRTAP17-1	NM_031964.1	341	cacctatcgacacacaaatga	397550	-	see also 50678 line
50680	KRTAP17-1	NM_031964.1	328	tgctgccagcccacacctatg	397548	-	see also 50678 line
50681	KRTAP18-8	NM_198695.1	38	tgccacagagcgtatgattgc	439878	-	see also 22450 line
50682	KRTAP19-2	NM_181608.1	127	tacagaagatatagattcactgg	432595	-	-
50683	KRTAP19-4	NM_181610.1	196	tacctgaggacacgatcaga	432598	-	see also 22452 line
50684	KRTAP19-4	NM_181610.1	198	ccctgaggacacgatcagagg	432599	-	see also 22452 line
50685	KRTAP19-4	NM_181610.1	220	gtcataagaagatcattcaattt	432600	-	see also 22452 line
50686	KRTAP19-6	NM_181612.1	135	cccatcatgccgtgaaggatatg	432602	-	see also 22453 line
50687	KRTAP19-7	NM_181614.1	169	tactggtctctggattctattg	432604	-	-
50688	KRTAP22-1	NM_181620.1	103	tgcccatggttatgaagatc	432611	-	-
50689	KRTAP22-1	NM_181620.1	104	ggccatggtgttatgaagatct	432612	-	see also 50688 line
50690	KRTAP22-1	NM_181620.1	100	tactgccatggtgttatgaag	432610	-	see also 50688 line
50691	KRTAP3-1	NM_031958.1	203	tgctgcagcctgtatcactatgt	397547	-	see also 22456 line
50692	KRTAP3-1	NM_031958.1	91	cactctctcgtcattgataaaa	397544	-	see also 22456 line
50693	KRTAP6-1	NM_181602.1	192	ctctggctctggctactattatt	432593	-	-
50694	KRTA4	NM_021013.3	29	cccccccaataatggtata	380357	-	-
50695	KRTA4	NM_021013.3	28	cccccccaataatggtat	380356	-	structural molecule
50696	KRTA4	NM_021013.3	33	accacaataatggtataaag	380360	-	see also 50694 line
						-	see also 50694 line

1343

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

図46 (続き)

1344

50741	LJMS2	NM_017980.2	462	atctcgggagttcactg	365028	-	see also 22476 line
50742	LIP8	NM_053051.1	1524	ctgcgaccgcaagaatgacc	405866	-	see also 22477 line
50743	LIP8	NM_053051.1	1062	acggcttcgccaagaattgagt	405857	-	see also 22477 line
50744	LJPE	NM_005357.2	1102	tgggaagctgcacacagagaaaa	333636	-	see also 22478 line
50745	LJPE	NM_005357.2	2995	ctcggatgcaactcttatfacc	333655	-	see also 22478 line
50746	LJR9	NM_021250.2	456	gagataccgctgttactactaca	380903	-	see also 22479 line
50747	LJR9	NM_021250.2	765	tggctctcgaggcatatctgc	380905	-	see also 22479 line
50748	LL5beta	NM_145753.1	3489	atcggacaagcgaaactctct	414845	-	see also 9799 line
50749	LL5beta	NM_145753.1	764	ctggccttcaacccaagttaac	414784	-	see also 9799 line
50750	LLGL2	NM_004524.1	3085	agcggcaactggcttcacatcg	332619	-	see also 22481 line
50751	LLGL2	NM_004524.1	963	ttccttgcaaaagcattaccaga	332614	-	see also 22481 line
50752	LLGL2	NM_004524.1	180	agcggaccctgtccagtttaac	332612	-	see also 22481 line
50753	LMOD3	NM_198271.1	375	atcgaaattagatcctaagaagt	437382	-	see also 22482 line
50754	LMOD3	NM_198271.1	646	aacatgttcgtgaaatagaag	437387	-	see also 22482 line
50755	LNIR	NM_030916.1	505	ctcaaatcaggcttcattga	395385	-	see also 22483 line
50756	LNIR	NM_030916.1	361	gacctcagacgtggtaactgtg	395383	-	see also 22483 line
50757	LOC11247	NM_145239.1	1045	atcgtgccttcgcttatctgt	413808	-	see also 22484 line
50758	LOC11247	NM_145239.1	1121	gcgggttagccaagctcttaagc	413809	-	see also 22484 line
50759	LOC11247	NM_145239.1	1180	gcctcgtcgtgataaacttagg	413811	-	see also 22484 line
50760	LOC11281	NM_138413.2	1005	ctggatcgcctggcttctgatg	407985	-	see also 22485 line
50761	LOC11281	NM_138413.2	1006	tggatcgcctggcttctgatg	407986	-	see also 22485 line
50762	LOC11286	NM_138414.1	260	ttcggaggcgcaacacacttag	407990	-	see also 22486 line
50763	LOC11286	NM_138414.1	263	gcggagcgcaacacacttagga	407991	-	see also 22486 line
50764	LOC11317	NM_138421.1	1095	agcctaatcggcttcttaaaaa	408073	-	see also 22487 line
50765	LOC11317	NM_138421.1	352	gtcctgataagaagaatctgt	408055	-	see also 22487 line
50766	LOC11317	NM_138421.1	1094	cagcctcattcgggtcttaaaa	408072	-	see also 22487 line
50767	LOC11344	NM_138428.2	715	gggatacctgcatgtctagtcc	408110	-	see also 22488 line
50768	LOC11344	NM_138428.2	546	aagaggaaggcgcgcactgtgt	408105	-	see also 22488 line
50769	LOC11361	NM_183075.1	1143	gtcgcgtgaaccccgatgacaag	435613	-	see also 22489 line
50770	LOC11361	NM_183075.1	1290	ggcgttgccattcctctataga	435617	-	see also 22489 line
50771	LOC11361	NM_183075.1	755	agcgttgattacacataatgt	435603	-	see also 22489 line
50772	LOC11365	NM_138431.1	1353	ctctgccttccgcttctgtacc	408115	-	see also 22490 line
50773	LOC11382	NM_138435.1	687	ctgatgtgacggtgacaaaagt	408121	-	see also 22492 line
50774	LOC11382	NM_138435.1	470	tggatgatatttcaagacattg	408119	-	see also 22492 line
50775	LOC11465	NM_052888.1	37	tacgtggcaactattctttacc	404590	-	see also 22493 line
50776	LOC11465	NM_052888.1	451	ctcaagtgggttaaacatcaga	404600	-	see also 22493 line
50777	LOC11492	NM_138436.2	307	caagataagcaagattctgttaa	408136	-	see also 22494 line
50778	LOC11492	NM_138436.2	313	aagcaagattggttaagacaac	408137	-	see also 22494 line
50779	LOC11492	NM_138437.1	2376	gcaatgcgagcaagaagtcca	408178	-	see also 22495 line
50780	LOC11492	NM_138437.1	506	tggcctcgttcttaaacatgatg	408143	-	see also 22495 line
50781	LOC11499	NM_138440.1	284	ggggctgtactgttttgagaacg	408190	-	see also 22496 line
50782	LOC11499	NM_138440.1	922	agctggatgtggcaacctaaagc	408192	-	see also 22496 line
50783	LOC11509	NM_138442.2	680	gcggctgtcgagctgaacagc	408212	-	see also 22497 line
50784	LOC11510	NM_138443.2	380	tacctcgtcgtagttttatcc	408220	-	see also 22498 line

図46 (続き)

1345

50785	LOC11510	NM_138443.2	794	tccgtctcttctcaagtgaaa	408236	-	see also 22498 line
50786	LOC11526	NM_145244.2	587	tagcgtctgacactctttgagc	413829	-	see also 22499 line
50787	LOC11526	NM_145244.2	504	tgcggcttgcggagttgtttat	413822	-	see also 22499 line
50788	LOC11526	NM_145244.2	584	tctatagctgtactacttttg	413828	-	see also 22499 line
50789	LOC11581	NM_138451.1	188	ctgcgcctgcccctttgtatca	408248	-	see also 22500 line
50790	LOC11581	NM_138451.1	336	tccgtgatgagcgatctacaag	408254	-	see also 22500 line
50791	LOC11581	NM_138451.1	285	tctctctagaccacaactcacc	408252	-	see also 22500 line
50792	LOC11623	NM_198147.1	1320	tccgaacggaggagaggattaaa	437113	-	see also 22501 line
50793	LOC11623	NM_198147.1	997	ccgttcccttcgagagtttgagg	437111	-	see also 22501 line
50794	LOC11623	NM_138463.2	749	tgtctgacgtgatgatataatc	408307	-	see also 22502 line
50795	LOC11623	NM_138463.2	340	gagacggcgtggctcaattctgg	408300	-	see also 22502 line
50796	LOC11843	NM_058173.1	241	tctaccacgtctgtaagaca	406198	-	see also 22503 line
50797	LOC11881	NM_178832.2	526	tgtctgcagctgagagtggtct	431999	-	see also 10222 line
50798	LOC11881	NM_178832.2	492	cccgcgaatgaagctctttga	431997	-	see also 10222 line
50799	LOC11881	NM_178832.2	413	gaccttgaggaggaaatttaaa	431995	-	see also 10222 line
50800	LOC11939	NM_182494.1	248	agctcggagctggatgaatgg	433908	-	see also 22504 line
50801	LOC11939	NM_182494.1	332	ccctgcctgtgacatacaatgc	433909	-	see also 22504 line
50802	LOC11950	NM_173473.1	280	ctgggaatctgtttttgctatc	424920	-	see also 22505 line
50803	LOC11950	NM_173473.1	313	cacgttaaacaggtgaaacatg	424921	-	see also 22505 line
50804	LOC11971	NM_138787.1	356	gacaaacagcaggaagagatact	408757	-	see also 22506 line
50805	LOC11971	NM_138787.1	446	aagtttagctctcgagagataga	408759	-	see also 22506 line
50806	LOC12022	NM_138788.2	209	agccgaattagacatttgtttt	408766	-	see also 22507 line
50807	LOC12022	NM_138788.2	753	gcgtaactattctctgttta	408777	-	see also 22507 line
50808	LOC12037	NM_138789.2	947	atccacgttaatactcaaatgc	408807	-	see also 22508 line
50809	LOC12037	NM_138789.2	592	gacagatacgaagcagatactatg	408793	-	see also 22508 line
50810	LOC12052	NM_181706.2	462	agcctgattctgtgtgatacatg	432847	-	see also 22509 line
50811	LOC12052	NM_181706.2	475	gtgatacatgttcaactaattata	432848	-	see also 22509 line
50812	LOC12225	NM_145248.2	265	accgttacatctggtattgatg	413882	-	see also 22510 line
50813	LOC12225	NM_145248.2	406	tggcgatctcttgagaattatc	413887	-	see also 22510 line
50814	LOC12316	NM_138792.2	1651	tccatacgtagggaatctcagc	408844	-	see also 22511 line
50815	LOC12316	NM_138792.2	886	tgcgattgcattctgattcagaag	408826	-	see also 22511 line
50816	LOC12316	NM_138792.2	876	aacgcaagaatgcgattgcattct	408824	-	see also 22511 line
50817	LOC12422	NM_145252.1	424	caccagcaagagccgcctattctt	413901	-	see also 22512 line
50818	LOC12422	NM_145252.1	361	agcggatacatcacaaagtct	413899	-	see also 22512 line
50819	LOC12422	NM_145252.1	405	tccgggttatgctcgtatgtaaac	413900	-	see also 22512 line
50820	LOC12444	NM_194280.1	689	gggtgagaaagtgtgtgtgtct	436237	-	see also 22512 line
50821	LOC12449	NM_145254.1	499	tacggatttttagctactatag	413919	-	see also 22514 line
50822	LOC12477	NM_181707.1	458	agcttcgcgcgaacttcaagtag	432852	-	see also 22515 line
50823	LOC12477	NM_181707.1	461	tccgcgactttacaagtagaac	432853	-	see also 22515 line
50824	LOC12477	NM_181707.1	455	agcagcttcgcgcgaacttcaag	432851	-	see also 22515 line
50825	LOC12547	NM_194281.1	163	ggagctatggcgcgaagtagaag	436238	-	see also 22516 line
50826	LOC12624	NM_173479.1	480	tctgtggttcgcgatttgagc	424953	-	see also 22517 line
50827	LOC12624	NM_173479.1	556	gtcattgccgcactctatgataa	424955	-	see also 22517 line
50828	LOC12635	NM_173481.2	1131	tacgtgcagcgggacatagtaga	424970	-	see also 22518 line

図46 (続き)

1346

50829	LOC12635	NM_173481.2	1376	cgggacccccccagctagaattct	424971	-	see also 22518 line
50830	LOC12673	NM_145257.1	680	gtcacagatcatgaatcagc	413935	-	see also 22519 line
50831	LOC12673	NM_145257.1	67	cggggtagagcggagtagatga	413928	-	see also 22519 line
50832	LOC12815	NM_138796.2	163	gtcaagtggggcatatcagc	408861	-	see also 22520 line
50833	LOC12815	NM_138796.2	161	atgtcaagtggggcatatcag	408860	-	see also 22520 line
50834	LOC12834	NM_181643.1	166	ggcttgacacagcactatctag	432634	-	see also 22521 line
50835	LOC12834	NM_181643.1	76	ttcatcccccgaattgattgg	432631	-	see also 22521 line
50836	LOC12913	NM_138797.1	404	gaotcggccaatgccaatgatgt	408884	-	-
50837	LOC12913	NM_138797.1	406	ctcggccaatgccaatgatgtgg	408885	-	see also 50836 line
50838	LOC12913	NM_138797.1	703	ggccaagtcaaaagctgaatcc	408886	-	see also 50836 line
50839	LOC12928	NM_152994.2	1423	atggactcctcggacaactac	421725	-	see also 9970 line
50840	LOC12928	NM_152994.2	982	ttgtgacggctctctaaacttt	421714	-	see also 9970 line
50841	LOC12953	NM_138798.1	362	cacttttcgggaataccttaat	408893	-	see also 22524 line
50842	LOC12953	NM_138798.1	368	ttcggcaataccttaatgagaca	408894	-	see also 22524 line
50843	LOC12953	NM_138798.1	360	gtcaacttttcgggaataccta	408892	-	see also 22524 line
50844	LOC12964	NM_138799.2	258	ttcgaacttctacatcaagc	408914	-	see also 9636 line
50845	LOC12964	NM_138799.2	471	gccaaagtactcagtgctatctc	408924	-	see also 9636 line
50846	LOC12964	NM_138799.2	480	ctcgggtctatctttgactat	408926	-	see also 9636 line
50847	LOC13002	NM_138468.3	953	cacgcgaagcaagattagtgaag	408339	-	see also 9624 line
50848	LOC13002	NM_138468.3	907	ttggctttcatcgttatgatttt	408335	-	see also 9624 line
50849	LOC13058	NM_138801.1	479	aggctaccggcgaggttaaaag	408985	-	see also 22527 line
50850	LOC13058	NM_138801.1	769	aggacttcactcaatgggtttt	408991	-	see also 22527 line
50851	LOC13088	NM_174899.3	67	ggccctcgtacaaagactattacc	423533	-	see also 22528 line
50852	LOC13088	NM_174899.3	145	gagtgagtagatgatcaacaac	428540	-	see also 22528 line
50853	LOC13088	NM_174899.3	149	ggatctcgtacaaacaaacctgg	428541	-	see also 22528 line
50854	LOC13094	NM_138803.2	1188	gaccaatcgttgtctataga	409030	-	see also 22529 line
50855	LOC13094	NM_138803.2	2008	aggacatggagctactctgtttt	409048	-	see also 22529 line
50856	LOC13095	NM_138804.2	1017	gtcatcggcctctcattacaagc	409068	-	see also 22530 line
50857	LOC13095	NM_138804.2	121	atgcacctcggcggaactctgg	409049	-	see also 22530 line
50858	LOC13111	NM_145261.1	366	ctcatcgaagaattatgctttta	413970	-	see also 22531 line
50859	LOC13111	NM_145261.1	364	tgctcatgacgaattatgctttt	413969	-	see also 22531 line
50860	LOC13136	NM_175056.1	759	tcaccagtaggattacccttg	428937	-	see also 10141 line
50861	LOC13136	NM_175056.1	926	cagaccaccgtcatgagaatgg	428948	-	see also 10141 line
50862	LOC13220	NM_138808.1	520	tggaactatacaactgtatgttg	409126	-	see also 22533 line
50863	LOC13220	NM_138808.1	511	ctcagagaatgcgactatacaac	409124	-	see also 22533 line
50864	LOC13220	NM_138808.1	509	ctctcagagatgcgactataca	409123	-	see also 22533 line
50865	LOC13232	NM_173487.1	339	agcatagaccggtatttctcagg	425002	-	see also 22534 line
50866	LOC13232	NM_173487.1	535	tcaccacggcagcatttatgco	425005	-	see also 22534 line
50867	LOC13267	NM_145263.1	1358	atcgttgacacacatttatgtgg	414002	-	see also 22535 line
50868	LOC13267	NM_145263.1	626	tcctcggagatgggatgcaac	413985	-	see also 22535 line
50869	LOC13267	NM_145263.1	1818	cccgtaggcacaaatggttttaa	414021	-	see also 22535 line
50870	LOC13361	NM_130809.2	1398	gtccctgtcggcagatgatctaca	407008	-	see also 22536 line
50871	LOC13361	NM_130809.2	293	tcaccaactcgcactctact	406970	-	see also 22536 line
50872	LOC13395	NM_145265.2	718	agccgggtctcaaccacatttctc	414034	-	see also 22537 line

図46 (続き)

1347

50873	LOC13395	NM_145265.2	719	gcggttcacgcacatattca	414035	-	see also 22537 line
50874	LOC13421	NM_194283.1	92	tacggtagtcacattctctacg	436293	-	see also 22538 line
50875	LOC13421	NM_194283.1	1338	aacagcgaacaaagtagtaaaag	436313	-	see also 22538 line
50876	LOC13421	NM_194283.1	306	gtcagcgcgcacatgaaactgtg	436298	-	see also 22538 line
50877	LOC13428	NM_173490.3	465	ggcgcaggaaacccctaaacgaga	425127	-	see also 22539 line
50878	LOC13428	NM_173490.3	172	gggttccaggcatcccaataaa	425125	-	see also 22539 line
50879	LOC13454	NM_175873.2	773	tggctccacgtaaaaagacaag	429386	-	see also 22540 line
50880	LOC13454	NM_175873.2	774	ggctccacgtaaaaagacaag	429387	-	see also 22540 line
50881	LOC13454	NM_175873.2	766	tcgcccatggctccacgtaaaaa	429382	-	see also 22541 line
50882	LOC13626	NM_145268.2	638	aagccttgagaaacacgaatgg	414068	-	see also 22541 line
50883	LOC13626	NM_145268.2	673	tcgcacagaagccctcagtaac	414069	-	see also 22542 line
50884	LOC14267	NM_080875.1	1177	gagggcacgcgtgcacgtatca	406882	-	see also 22542 line
50885	LOC14267	NM_080875.1	2137	cgcgtagctgtgagaagattc	406886	-	see also 22542 line
50886	LOC14324	NM_138812.1	253	atccgatagaatatttagcattg	409203	-	see also 22543 line
50887	LOC14324	NM_138812.1	599	agctgaatcagcgtcgtttatg	409214	-	see also 22543 line
50888	LOC14409	NM_138471.1	935	cagacatagaccacaaacactgg	408350	-	-
50889	LOC14410	NM_175058.2	813	accgtcagcgtcccgatttaca	428961	-	see also 22544 line
50890	LOC14410	NM_175058.2	956	ggcgacacgtgacgtcaaacctga	428963	-	see also 22544 line
50891	LOC14423	NM_181708.1	90	gcoccttggaaattttctctca	432856	-	see also 10249 line
50892	LOC14423	NM_181708.1	354	aagcggacgcgaacaaagtgtcc	432860	-	see also 10249 line
50893	LOC14450	NM_182507.1	238	ttgcacctcggcctcctctatga	434013	-	see also 22546 line
50894	LOC14450	NM_182507.1	480	gcocctttccctccagatatcc	434014	-	see also 22546 line
50895	LOC14474	NM_194286.1	664	tactgtctcgtcgtggagattat	436360	-	see also 22547 line
50896	LOC14474	NM_194286.1	399	ggctgttcggggaaatctctgc	436357	-	see also 22547 line
50897	LOC14549	NM_194287.1	969	gcaagccctgtgcacaaattac	436369	-	see also 22548 line
50898	LOC14549	NM_194287.1	1016	cacaaccaattctcgtgttagg	436373	-	see also 22548 line
50899	LOC14549	NM_194287.1	979	gtgcaccaattaccacaaattaaa	436370	-	see also 22548 line
50900	LOC14617	NM_173501.1	321	ctcgtgcacaggtcaacaacat	425172	-	see also 22549 line
50901	LOC14617	NM_173501.1	319	ggctcgtgcacaggtcaacaac	425171	-	see also 22549 line
50902	LOC14632	NM_145270.1	378	accctaacactacaattgtctcc	414073	-	see also 22550 line
50903	LOC14656	NM_139170.1	1228	agcgtgggatttggatgacatcc	409416	-	see also 22551 line
50904	LOC14656	NM_139170.1	590	ttcatcttcacaggaacacaaac	409413	-	see also 22551 line
50905	LOC14684	NM_145054.2	1993	atccgcataagtcacaggaataca	413299	-	see also 22552 line
50906	LOC14684	NM_145054.2	1388	cagcatggaacacagcggtaaaato	413285	-	see also 22552 line
50907	LOC14684	NM_145054.2	2051	tgcgatggaagtagcccatatcc	413303	-	see also 22552 line
50908	LOC14685	NM_145272.2	442	agctcctcttcgcaagaatagc	414074	-	see also 22553 line
50909	LOC14711	NM_178493.3	1437	ggcttcacatgagatcatcatc	430835	-	see also 22554 line
50910	LOC14796	NM_174905.2	964	gtgtggggtcgaagaaraaga	428575	-	see also 22555 line
50911	LOC14806	NM_181710.2	851	ctgtgtgtatcagcctctttgt	432871	-	see also 22556 line
50912	LOC14813	NM_144692.1	329	ctcctgtgtggcccaagtataaa	411338	-	see also 22557 line
50913	LOC14813	NM_144692.1	327	gactcgtgtgtggcccaagtatat	411337	-	see also 22557 line
50914	LOC14852	NM_144697.2	924	gacagcatcccgctatttagg	411452	-	see also 22558 line
50915	LOC14852	NM_144697.2	1310	aaccggcattggcgtctattttt	411459	-	see also 22558 line
50916	LOC14873	NM_145271.2	1043	cgcaatcgtggggagctataac	414100	-	see also 22559 line

図46 (続き)

1348

50917	LOC14873	NM_145277.2	1047	atctgtggagagctataaccatt	414101	-	see also 22559 line
50918	LOC14882	NM_145278.1	382	ttcttagagcttctgttagtg	414110	-	see also 22560 line
50919	LOC14882	NM_145278.1	203	cacttcaatcaggaacacaga	414105	-	see also 22560 line
50920	LOC14887	NM_198543.1	286	cacgcctccctgcctcagattcg	439316	-	-
50921	LOC14934	NM_198149.1	208	ctcttgagcatccggggttaact	437115	-	-
50922	LOC14934	NM_198149.1	634	tgcagctcctccctcctatagc	437116	-	see also 50921 line
50923	LOC14946	NM_182518.1	279	tggcagctatcgtttgtcattga	434062	-	see also 22561 line
50924	LOC14946	NM_182518.1	441	cagcctgagatctatgttaactat	434065	-	see also 22561 line
50925	LOC14983	NM_177549.2	1051	tgtcaattcccatgtctaacaca	430278	-	-
50926	LOC14983	NM_177549.2	1179	gactgcagcagctgcaatagaaa	430281	-	see also 50925 line
50927	LOC14983	NM_177549.2	1081	cccatcactcagtcgcatattcc	430280	-	see also 50925 line
50928	LOC15015	NM_139173.1	195	ctcattgacttaataatactgc	409420	-	see also 22562 line
50929	LOC15015	NM_139173.1	160	atgaanaacttccaacatctaca	409419	-	see also 22562 line
50930	LOC15037	NM_138814.1	368	ggcctgacggacgcaacttttg	409216	-	see also 22563 line
50931	LOC15037	NM_138814.1	369	gcctgacggacgcaacttttg	409217	-	see also 22563 line
50932	LOC15067	NM_148961.2	348	gacatggcccgcaactcttttg	415176	-	-
50933	LOC15075	NM_175853.2	68	aagtgtgctagcagactataca	429277	-	see also 22584 line
50934	LOC15075	NM_175853.2	72	ctgtagcagactataacagagg	429278	-	see also 22564 line
50935	LOC15119	NM_145280.3	695	ttcgctatgacaggagatacaaac	414124	-	see also 9786 line
50936	LOC15119	NM_145280.3	441	gactatcagggatgaaagtag	414115	-	see also 9786 line
50937	LOC15119	NM_145280.3	439	gtgactatcagggatgaaagtag	408400	-	see also 22566 line
50938	LOC15153	NM_138482.1	882	cccgcaagctgagagtttctta	408401	-	see also 22566 line
50939	LOC15153	NM_138482.1	961	caaccgacctccactcttttg	408401	-	see also 22566 line
50940	LOC15163	NM_138287.2	874	cagctgtgagctcttttctagt	407405	-	see also 22567 line
50941	LOC15163	NM_138287.2	1509	aaggcgaagcagatgtctaaa	407427	-	see also 22567 line
50942	LOC15164	NM_138484.1	500	tggaaatggaccccaataatgatg	408412	-	see also 22568 line
50943	LOC15164	NM_138484.1	770	agccagcgtgaaactataaggagc	408422	-	see also 22568 line
50944	LOC15183	NM_153635.1	1645	ttcgtccattcccgagactatgt	423468	-	see also 22569 line
50945	LOC15183	NM_153635.1	382	ttcgtccctgactatttttga	423457	-	see also 22569 line
50946	LOC15196	NM_178496.2	434	aactcatcacaagaatttaacagag	430855	-	see also 10193 line
50947	LOC15196	NM_178496.2	1005	tagtcgcatgtgtatgatattg	430877	-	see also 10193 line
50948	LOC15196	NM_178496.2	1002	gagtagtcgcatgtgtatgatata	430876	-	see also 10193 line
50949	LOC15218	NM_144718.2	2420	gtcttaacacacaggtatgttg	411735	-	see also 10193 line
50950	LOC15219	NM_194289.1	444	gcccactctctgccaactctct	436382	-	see also 9734 line
50951	LOC15268	NM_182524.1	1461	atcctaaactttatattataca	434102	-	-
50952	LOC15268	NM_182524.1	1457	accaatcctcaactttattata	434161	-	see also 22572 line
50953	LOC15268	NM_182524.1	1469	ctcttatattacacaagaagatc	434163	-	see also 22572 line
50954	LOC15368	NM_194290.1	553	gactagcaggttgacacaaacaga	436384	-	see also 22573 line
50955	LOC15480	NM_173517.1	565	atcaactacaaacgactagtta	425321	-	see also 22574 line
50956	LOC15480	NM_173517.1	483	ggcctacattctgtactttgtgc	425320	-	see also 22574 line
50957	LOC15737	NM_194291.1	1058	tgcagagctagtgaaagcattgg	436393	-	see also 22575 line
50958	LOC15737	NM_194291.1	1083	tccagggttaggcctgtcaattcc	436395	-	see also 22575 line
50959	LOC15756	NM_198401.1	338	agctcgaggggaatgtagacatct	437700	-	see also 10317 line
50960	LOC15756	NM_198401.1	435	ggcccatgtggactactatccaatt	437702	-	see also 10317 line

1349

図46 (続き)

50961	LOC15765	NM_177965.2	409	tgcgttgatagcctgatttc	430305	-	see also 22576 line
50962	LOC15765	NM_177965.2	52	aagtcagtcacagtttgaca	430298	-	see also 22576 line
50963	LOC15842	NM_139246.3	1583	cccgaagccacgacacacag	409604	-	see also 9683 line
50964	LOC15909	NM_145284.3	719	gacaagccggagaaattatatt	414138	-	see also 9788 line
50965	LOC15909	NM_145284.3	564	ctcgggaggaatgtacaacatt	414134	-	see also 9788 line
50966	LOC15909	NM_138819.1	622	tcacatagccgccttcacaaat	409259	-	see also 22578 line
50967	LOC15909	NM_138819.1	779	ctctaaagtgcattgatttaact	409267	-	see also 22578 line
50968	LOC15909	NM_138819.1	456	taccgcagagcggcaacattctga	409255	-	see also 22578 line
50969	LOC16157	NM_198524.1	885	gccacagaggttcgcttgaatag	439123	-	see also 22579 line
50970	LOC16157	NM_198524.1	205	tacatctaggcctgttttaacaa	439109	-	see also 22579 line
50971	LOC16242	NM_178126.2	408	gccaaagaccgcagcattagaca	430476	-	see also 10179 line
50972	LOC16242	NM_178126.2	414	accgcagcattagacaattgaga	430478	-	see also 10179 line
50973	LOC16525	NM_182528.1	1426	ggctcagcggagcaataataaca	434174	-	see also 22581 line
50974	LOC16525	NM_182528.1	1387	ttcagggagcgaagtgtatgtga	434171	-	see also 22581 line
50975	LOC16532	NM_181713.3	374	accgtcaacgacgatttcgaag	432886	-	see also 22582 line
50976	LOC16532	NM_181713.3	380	aacgacgatttcagaagtattc	432888	-	see also 22582 line
50977	LOC16885	NM_176814.3	2520	ctgacgtcgtattgaagtataaa	429770	-	see also 22583 line
50978	LOC16885	NM_176814.3	2522	gaagtcggtattgaagtataaagt	429771	-	see also 22583 line
50979	LOC16885	NM_176814.3	1443	gttttcgctgcacattcgaaaa	429736	-	see also 22583 line
50980	LOC16935	NM_194294.1	682	tgcctgacgaactggaccacaaaa	436498	-	see also 22584 line
50981	LOC16935	NM_194294.1	287	gtccacagacccgaatgaaga	436493	-	see also 22584 line
50982	LOC16935	NM_194294.1	684	ctgcacgaactggaccacaaaaa	436499	-	see also 22584 line
50983	LOC16961	NM_182487.1	806	gagacgacagagatctatgtcacc	433879	-	see also 22585 line
50984	LOC16961	NM_182487.1	804	tcgagacgacagagatctatgtca	433878	-	see also 22585 line
50985	LOC17039	NM_173541.1	248	agcagctgcgccattctcaca	425743	-	see also 22586 line
50986	LOC17039	NM_173541.1	283	gaccacagagcgcgtttctctgc	425745	-	see also 22586 line
50987	LOC19626	NM_198275.1	114	gcccatgtccggaggtatgtgg	437407	-	see also 22587 line
50988	LOC19626	NM_198275.1	347	aagcaacccctaccataaaggaca	437415	-	see also 22587 line
50989	LOC19646	NM_173542.2	840	tgcgtgatacaagaagtactgg	425746	-	see also 22588 line
50990	LOC19646	NM_173542.2	1604	cgcctccatgggggtatgatgt	425752	-	see also 22588 line
50991	LOC19667	NM_174918.1	928	gacgacattagcagccataaaaa	428661	-	see also 22589 line
50992	LOC19667	NM_174918.1	558	accagactatgagataacacc	428657	-	see also 22589 line
50993	LOC19996	NM_182532.1	313	ctccaccctcgtatgtcatga	434204	-	-
50994	LOC19996	NM_182532.1	789	ggctccacccagctatagagagc	434205	-	see also 50993 line
50995	LOC20018	NM_181715.1	115	ggcttccaatccgcacaaatta	432965	-	see also 22591 line
50996	LOC20018	NM_181715.1	218	accgggttacagggcccaaaact	432968	-	see also 22591 line
50997	LOC20115	NM_145301.1	770	tcagggaaactgccaaacgatgg	414269	-	-
50998	LOC20115	NM_174920.2	836	ccccaccctcgtcgtataaga	428665	-	see also 22592 line
50999	LOC20119	NM_174920.2	839	caccatcggcctcgtataaga	428666	-	see also 22592 line
51000	LOC20124	NM_175734.2	1027	ccctcccccgaacattgttctcc	429170	-	see also 22593 line
51001	LOC20129	NM_173547.2	1051	agcgcaaacgctactctatct	425837	-	see also 10082 line
51002	LOC20129	NM_173547.2	498	ggccgaaggccagctactagagc	425830	-	see also 10082 line
51003	LOC20129	NM_173547.2	512	tactagagatgctgcgaagcaaacg	425831	-	see also 10082 line
51004	LOC20189	NM_174921.1	284	accgggaccctctggtgataatg	428672	-	see also 22595 line

図46 (続き)

1350

51005	LOC20189	NM_174921.1	209	tgaatggaagactgatcaatc	428671	-	see also 22595 line
51006	LOC20352	NM_182540.1	1281	tgattgtggccaatggaata	434267	-	see also 10268 line
51007	LOC20525	NM_174925.1	1066	ggcagacagatggactattag	428697	-	see also 22597 line
51008	LOC20525	NM_174925.1	1036	gtccaaagcctgggaaagtctc	428696	-	see also 22597 line
51009	LOC22003	NM_182833.1	1396	agcatgtgggcocttgattatcc	435423	-	see also 22598 line
51010	LOC22003	NM_182833.1	1473	ttgttccctaatgggttaagaga	435429	-	see also 22598 line
51011	LOC22007	NM_145308.2	305	ggccacactgcctccatgcaaatc	414338	-	see also 22599 line
51012	LOC22007	NM_145308.2	306	ccacactgtccatgcaaatcc	414339	-	see also 22599 line
51013	LOC22007	NM_145309.1	174	aacgggactatgaacactctg	414341	-	see also 22600 line
51014	LOC22007	NM_145309.1	280	acgacacactgaagcgttcaagt	414345	-	see also 22600 line
51015	LOC22092	NM_182755.1	1918	accaacagaagccttacaattg	434962	-	see also 22601 line
51016	LOC22092	NM_182755.1	1891	caccttcagaccacatgaatc	434961	-	see also 22601 line
51017	LOC22104	NM_145314.1	446	gacggcctgcaaccactctatct	414360	-	see also 22602 line
51018	LOC22104	NM_145314.1	541	cccggttccagcaattttcc	414361	-	see also 22602 line
51019	LOC22171	NM_194299.1	1110	ggagcagcagtagacgtttct	436582	-	see also 22603 line
51020	LOC22171	NM_194299.1	1116	ggacgtagcgttttctcaatca	436585	-	see also 22603 line
51021	LOC22171	NM_194299.1	1112	gacggacagtagacgtttctca	436583	-	see also 22603 line
51022	LOC22217	NM_175887.2	925	ccccaacacagcaagtatac	429498	-	-
51023	LOC22217	NM_175887.2	923	cccccaacacagcaagtatac	429497	-	see also 51022 line
51024	LOC22296	NM_173565.1	592	ttgtacatctgtgtatgtttt	426189	-	see also 22604 line
51025	LOC22296	NM_173565.1	722	ccggacggcagcagtagaagg	426196	-	see also 22604 line
51026	LOC22307	NM_194300.1	3267	ggcggacacactgcaaacgttac	436625	-	see also 22605 line
51027	LOC22307	NM_194300.1	1983	aagttagggcgagcagctctttt	436607	-	see also 22605 line
51028	LOC22307	NM_194300.1	3268	ggcggacacactgcaaacgttac	436626	-	see also 22605 line
51029	LOC22308	NM_147128.3	1591	aacaaagccacgaataaactata	415009	-	see also 9806 line
51030	LOC22308	NM_147128.3	1606	aacctaatgaggatgtactga	415012	-	see also 9806 line
51031	LOC25301	NM_198151.1	550	ggcactcggctagcttaccatg	437127	-	see also 10311 line
51032	LOC25301	NM_198151.1	1072	ttgtcaactttgcaagataaac	437139	-	see also 10311 line
51033	LOC25301	NM_181717.1	529	ctcacacatcacccctatttgg	432999	-	-
51034	LOC25301	NM_181717.1	376	gtgtgactgggtgaagtgttttc	432998	-	see also 51033 line
51035	LOC25355	NM_153184.1	835	ttcgccctctcctggcatgaattg	422065	-	see also 22608 line
51036	LOC25355	NM_153184.1	836	tgcgcttctcctggcatgaattga	422066	-	see also 22608 line
51037	LOC25382	NM_198080.1	382	ttcattccacagatgtatcaatt	436989	-	-
51038	LOC25382	NM_198080.1	155	tcgggctcgttagggataaaaa	436987	-	see also 51037 line
51039	LOC25382	NM_198080.1	510	ctcgtccaacttgggaagaagac	436991	-	see also 51037 line
51040	LOC25398	NM_181718.3	973	ggggcttcgaagctttatgagt	433004	-	see also 22609 line
51041	LOC25398	NM_181718.3	971	ggggggcttcgaagctttatgaga	433003	-	see also 22609 line
51042	LOC25453	NM_153613.1	248	cccttgctgcatgagtacatct	423389	-	see also 22610 line
51043	LOC25453	NM_153613.1	247	cccttgctgcatgagtacatc	423388	-	see also 22610 line
51044	LOC25510	NM_181719.1	847	ctggccttgacaggtatacaatg	433014	-	see also 10250 line
51045	LOC25510	NM_181719.1	802	cagccggcataggccatcatgacc	433012	-	see also 10250 line
51046	LOC25531	NM_173571.1	499	cgccggaggagcagcatcatcg	426260	-	-
51047	LOC25574	NM_198278.1	1253	accacggcagcagcaactatagc	437487	-	see also 10315 line
51048	LOC25574	NM_198278.1	798	aaggttcgactctcatgtattt	437469	-	see also 10315 line

図46 (続き)

1351

51049	LOC25664	NM_198279.1	1466	aactacatgaattactacg	437520	-	see also 22613 line
51050	LOC25664	NM_198279.1	1273	gactacgacatgaattgaag	437514	-	see also 22613 line
51051	LOC25664	NM_198279.1	1274	actacgacatgaattgaag	437515	-	see also 22613 line
51052	LOC25710	NM_181720.1	2592	atccgagagctgttagtctgc	433031	-	see also 22614 line
51053	LOC25710	NM_181720.1	360	cactacccgctctatgacaagt	433022	-	see also 22614 line
51054	LOC28296	NM_182554.1	365	ttgtattggccagattgatca	434416	-	see also 22615 line
51055	LOC28296	NM_182554.1	133	ggagtoatccttagagaagataga	434415	-	see also 22615 line
51056	LOC28303	NM_194304.1	448	acacacatgagtgccctattatt	436677	-	-
51057	LOC28323	NM_174940.1	242	aagctactacgacctgtattcc	428766	-	-
51058	LOC28323	NM_174940.1	276	ctgatgatcaagctataaaagta	428769	-	see also 51057 line
51059	LOC28323	NM_174940.1	274	tcctgatgatcaagctataaaagt	428768	-	see also 51057 line
51060	LOC28324	NM_175893.2	376	tacgttttaaacacctctttata	429513	-	see also 22616 line
51061	LOC28324	NM_175893.2	386	cacotcttttatacttggtaaaa	429514	-	see also 22616 line
51062	LOC28338	NM_173855.2	537	tgcgcctgagtcacaaatcctaga	428516	-	see also 22617 line
51063	LOC28338	NM_173855.2	404	ttcggaccacaaaggagtattatga	428512	-	see also 22617 line
51064	LOC28338	NM_173855.2	533	atgctgcgcctgagtcacaaatcc	428514	-	see also 22618 line
51065	LOC28347	NM_175896.2	241	tcacatcaactcaaaacctattc	429522	-	see also 22618 line
51066	LOC28347	NM_175896.2	385	cagcctctctgagtcactgtcagc	429530	-	see also 22618 line
51067	LOC28348	NM_178514.2	628	gagaggtaccacgacctagtgc	430967	-	see also 22619 line
51068	LOC28348	NM_178514.2	1028	gtgtcccatctcatglaagaca	430976	-	see also 22619 line
51069	LOC28351	NM_198849.1	367	ccacactgcggcagatccatagg	439926	-	-
51070	LOC28351	NM_198849.1	449	gcggctgattggatcatcatgc	439927	-	see also 51069 line
51071	LOC28353	NM_181785.1	637	gtgacactacagcgagaaattc	433331	-	see also 22620 line
51072	LOC28353	NM_181785.1	848	aacaaatgaatagctatcatctg	433338	-	see also 22620 line
51073	LOC28353	NM_181785.1	1072	accattttaccgaactacatg	433350	-	see also 22620 line
51074	LOC28368	NM_175898.2	19	tcgaaaagctggtctctctataca	429533	-	-
51075	LOC28384	NM_178516.2	1451	accgctcgtctctctattactca	430979	-	see also 22621 line
51076	LOC28384	NM_178516.2	1448	cagaccctcgtcgtctctattac	430978	-	see also 22621 line
51077	LOC28393	NM_175901.2	604	ggagagggactacgaaaaagatg	429538	-	see also 22622 line
51078	LOC28393	NM_175901.2	461	ccggctcccgctctatcatctca	429536	-	see also 22622 line
51079	LOC28393	NM_175901.2	549	gactcgcacatggagtgtagt	429537	-	see also 22622 line
51080	LOC28400	NM_198082.1	2071	tgcgccactcctgattatgttc	437008	-	see also 22623 line
51081	LOC28400	NM_198082.1	958	gtccggagcttaaggttaaac	437001	-	see also 22623 line
51082	LOC28400	NM_198082.1	2112	tacgaactcaaaagcataagttt	437009	-	see also 22623 line
51083	LOC28401	NM_181655.1	413	agctatgtgaagaaggtttatcgc	432804	-	-
51084	LOC28403	NM_175903.2	531	gtgcacttgacccaaagtaaat	429542	-	see also 22624 line
51085	LOC28403	NM_175903.2	710	ttcagggttccaattgtattttt	429546	-	see also 22624 line
51086	LOC28403	NM_175903.2	683	agcgaattgttttaagaagt	429545	-	see also 22624 line
51087	LOC28429	NM_175908.3	196	gacgcctgttccatgacatcc	429547	-	see also 22625 line
51088	LOC28429	NM_175908.3	293	atcgccatgggggaagattttc	429549	-	see also 22625 line
51089	LOC28430	NM_198850.1	288	ggctacgctccgatagctatg	439929	-	see also 22626 line
51090	LOC28446	NM_182759.1	254	agcgcctccagacaggtgaatgc	435115	-	-
51091	LOC28446	NM_182759.1	429	cagcagtggaacacaaagcaaaa	435116	-	see also 51090 line
51092	LOC28446	NM_182759.1	430	agcagtggaacacaaagcaaaa	435117	-	see also 51090 line

図46 (続き)

1352

51093	LOC28461	NM_198280.1	128	aggatgagtgagccattttt	437531	-	see also 22628 line
51094	LOC28461	NM_198280.1	127	cagataggatggccattttt	437530	-	see also 22628 line
51095	LOC28468	NM_182581.1	829	ttggcggggaagcctactatgt	434512	-	see also 22629 line
51096	LOC28468	NM_182581.1	831	ggcggggaagcctactatgt	434513	-	see also 22629 line
51097	LOC28469	NM_183242.1	966	ctccaaagtagctactctt	435654	-	see also 22630 line
51098	LOC28469	NM_183242.1	967	tcocaaagtagctactctca	435655	-	see also 22630 line
51099	LOC28483	NM_194310.1	388	accgggcaactctgaaccatgg	436689	-	see also 22631 line
51100	LOC28483	NM_194310.1	383	aacacaccgggcaactctgaac	436688	-	see also 22631 line
51101	LOC28494	NM_198482.1	239	ccacccacgctcaataatctgc	438484	-	-
51102	LOC28494	NM_198482.1	391	gtgccctgctccactacaaga	438485	-	see also 51101 line
51103	LOC28494	NM_198482.1	237	acccacccagctcaataatct	438483	-	see also 51101 line
51104	LOC28549	NM_194439.1	235	aagctctgtgctacagtgttg	436882	-	see also 22632 line
51105	LOC28549	NM_194439.1	236	agctcctgtgctacagtgttg	436883	-	see also 22632 line
51106	LOC28551	NM_198281.1	2488	gocagaccggagatccattcc	437569	-	see also 22633 line
51107	LOC28551	NM_198281.1	1589	tgccagacacgtgtaagaag	437550	-	see also 22633 line
51108	LOC28553	NM_173662.1	1031	aagagcttatcggaacataatct	427169	-	see also 22634 line
51109	LOC28553	NM_173662.1	833	gggttacttggcgtatcgttta	427166	-	see also 22634 line
51110	LOC28563	NM_175921.2	895	cactgtgtgtacaattatgagg	429579	-	see also 22635 line
51111	LOC28563	NM_175921.2	893	ctcactgtgtgtacaattatga	429578	-	see also 22635 line
51112	LOC28567	NM_178532.2	385	cccggttaggggggttaatttt	431081	-	see also 22636 line
51113	LOC28567	NM_178532.2	663	ggaggtgcacacacataatttga	431089	-	see also 22636 line
51114	LOC28585	NM_198153.1	445	acgcttcgaaacataataact	437158	-	-
51115	LOC28585	NM_198153.1	539	cccaacagacacggttctgaca	437160	-	see also 51114 line
51116	LOC28585	NM_198153.1	247	ggcccttatgcccaaatccttgg	437157	-	see also 51114 line
51117	LOC28604	NM_173683.2	639	cggaactgatatagaattgttg	427368	-	see also 10109 line
51118	LOC28604	NM_173683.2	638	ggcggactgatatagaattgttg	427367	-	see also 10109 line
51119	LOC28614	NM_181787.1	1670	ggcgtgcctactataatagttot	433442	-	see also 22639 line
51120	LOC28614	NM_181787.1	1664	agcattggcgcgtcctactaat	433440	-	see also 22639 line
51121	LOC28625	NM_183241.1	566	tcacagagagtcgctctcaacc	435641	-	-
51122	LOC28625	NM_183241.1	588	cccggttcaagagtaagaacc	435642	-	see also 51121 line
51123	LOC33879	NM_178538.2	597	accagcttaagaactcttcttg	431146	-	-
51124	LOC33916	NM_198154.1	178	ttctggccttgccttagatga	437161	-	-
51125	LOC33945	NM_198317.1	1328	gtcctagaccccgtaactaaca	437658	-	see also 22641 line
51126	LOC33945	NM_198317.1	1740	aactcgttagagagatcacagtc	437659	-	see also 22641 line
51127	LOC33976	NM_194312.1	2242	tgccgaaggagcgcatatcatg	436693	-	see also 22642 line
51128	LOC33976	NM_194312.1	697	tcgtctggcgtgcacattcacc	436691	-	see also 22642 line
51129	LOC33983	NM_178173.2	1020	agcttagacaagagagtttatag	430587	-	see also 22643 line
51130	LOC33983	NM_178173.2	1019	aagctagacaagagaggtttata	430586	-	see also 22643 line
51131	LOC34006	NM_198282.1	780	gcccggattcgaaattacaaca	437575	-	see also 22644 line
51132	LOC34006	NM_198282.1	1366	tcctctccgcacaggatttctct	437586	-	see also 22644 line
51133	LOC34006	NM_182761.1	381	gtcgtcttatctactataaga	435137	-	see also 22645 line
51134	LOC34006	NM_182761.1	385	tcctattcatctataagaactg	435138	-	see also 22645 line
51135	LOC34101	NM_181807.1	832	ggcgcgaagacgagtggttttgg	433656	-	see also 22646 line
51136	LOC34101	NM_181807.1	869	ggcctgaacctgaagataacc	433657	-	see also 22646 line

1353

図46 (続き)

51137	LOC34156	NM_181788.1	427	cagctgccagcggaaaaactgt	433470	-	see also 22647 line
51138	LOC34490	NM_198184.1	332	atccaaaaaggcgatttgatc	437190	-	see also 22648 line
51139	LOC34490	NM_198184.1	368	ttgtatgaacccggtttcaaat	437192	-	see also 22648 line
51140	LOC34566	NM_197941.1	492	aacacaccggcctgtcgaaaaag	436908	-	see also 22649 line
51141	LOC34566	NM_197941.1	802	tacacggcagcggcatctagtga	436910	-	see also 22649 line
51142	LOC34566	NM_197941.1	310	gacagttaagccactgaaatca	436904	-	see also 22649 line
51143	LOC34667	NM_182489.1	720	caagcccgaggagatccttttg	433900	-	see also 22650 line
51144	LOC34667	NM_182489.1	438	ctcccttggtatctaaactttt	433894	-	see also 22650 line
51145	LOC34809	NM_182703.2	109	ctgcactgcgcagcccaaaagg	434902	-	see also 22651 line
51146	LOC34809	NM_182703.2	860	aagctgatcgtttctacagatgg	434911	-	see also 22651 line
51147	LOC34864	NM_198851.1	937	gtcacactggggcgtgcaaatgc	439932	-	see also 22652 line
51148	LOC34864	NM_198851.1	947	ggcgtgacaatgcatttgatca	439936	-	see also 22652 line
51149	LOC34884	NM_182631.1	534	aggaagagacgtgttcaattatt	434807	-	see also 22653 line
51150	LOC34884	NM_182631.1	604	cactgctctcatgatggtaaac	434808	-	see also 22653 line
51151	LOC34913	NM_198285.1	1031	tgcagggcgtctggttttcttt	437648	-	-
51152	LOC34913	NM_198285.1	701	gocacacattcatcacaactgc	437647	-	see also 51151 line
51153	LOC35290	NM_178837.2	415	ggcctcgcaggggttcaacttc	432003	-	see also 22655 line
51154	LOC35290	NM_178837.2	416	ggcctcgcaggggttcaacttc	432004	-	see also 22655 line
51155	LOC35290	NM_178837.2	394	ccctgtcccgagcgaagtcttgc	432002	-	see also 22655 line
51156	LOC36020	NM_182973.1	1939	aaggcgtcctgtggcgcacataga	435522	-	see also 22656 line
51157	LOC36020	NM_182973.1	1398	cagcaccccaacacaaatcgtgc	435518	-	see also 22656 line
51158	LOC37465	NM_198525.1	552	accttaacctgcgcagaaatag	439129	-	see also 22657 line
51159	LOC37465	NM_198525.1	2237	ggcccgcttaccatgtgataaac	439134	-	see also 22657 line
51160	LOC37494	NM_198545.2	832	ttgcactggaccgattatgaaga	439328	-	see also 22658 line
51161	LOC37494	NM_198545.2	838	tggaccgattatgaagactaaa	439330	-	see also 22658 line
51162	LOC37510	NM_198996.1	305	tggctattcacgggacagacc	440468	-	see also 22659 line
51163	LOC37510	NM_198996.1	652	acatatagcagattagattaca	440479	-	see also 22659 line
51164	LOC37532	NM_198560.1	646	cacggctacgggtctacaagatct	439515	-	see also 22660 line
51165	LOC37532	NM_198560.1	765	ggcccaagcagcggggaagtactcc	439517	-	see also 22660 line
51166	LOC37544	NM_198828.1	632	acgagagcgttgaccacatatata	439887	-	see also 22661 line
51167	LOC37544	NM_198828.1	397	tcctcctcggggctcagaactct	439886	-	see also 22661 line
51168	LOC51035	NM_015853.3	291	gactcccttggacatatctctgg	355257	-	see also 22662 line
51169	LOC51035	NM_015853.3	599	aggagttagcagccagcaaaaga	355259	-	see also 22662 line
51170	LOC51054	NM_015899.1	1591	ggcgggttaaacggtaaagggaagg	355382	-	see also 22663 line
51171	LOC51054	NM_015899.1	1483	ggcctgaataacgcatatggttaa	355377	-	see also 22663 line
51172	LOC51057	NM_015910.2	1437	tgggtctgtgacctttatg	355434	-	see also 22664 line
51173	LOC51057	NM_015910.2	1213	cagcatagcgcctatgttaaac	355430	-	see also 22664 line
51174	LOC51059	NM_015912.2	1287	acctccgctcgttaagactttc	355468	-	see also 22665 line
51175	LOC51059	NM_015912.2	850	gccttccggaggcctaacaataa	355462	-	see also 22665 line
51176	LOC51059	NM_015912.2	1290	tccggcttgtaagactttcata	355469	-	see also 22665 line
51177	LOC51063	NM_015916.3	892	tgcgtgtgagcgttatgttgt	355473	-	see also 22666 line
51178	LOC51063	NM_015916.3	1361	tgcataccggcgtctacttgt	355477	-	see also 22666 line
51179	LOC51063	NM_015916.3	1286	ggcgtcaacaagcatgatgagg	355476	-	see also 22666 line
51180	LOC51122	NM_016094.1	152	cggcgcaaaccccaaaatctacg	356260	-	see also 6659 line

図46 (続き)

1354

51181	LOC51122	NM_016094.1	122	tggcagagattgctggaattcc	359259	-	see also 6659 line
51182	LOC51136	NM_016125.2	550	ttotgagcgttaaaactgtttatg	359333	-	see also 6677 line
51183	LOC51149	NM_016175.1	644	cacgaactatgacacctttata	359534	-	-
51184	LOC51149	NM_016175.1	361	gtctgccacctagaaanagttc	359533	-	see also 51183 line
51185	LOC51159	NM_016206.1	301	ttctataactttgttaactcgaga	359557	-	see also 22669 line
51186	LOC51159	NM_016206.1	625	atcttgcatgctcgaagctcc	359561	-	see also 22669 line
51187	LOC51159	NM_016206.1	966	tgcacttgtaacaagagactattt	359566	-	see also 22670 line
51188	LOC51161	NM_016210.2	849	cacgagagaacaagatggattgg	359572	-	see also 22670 line
51189	LOC51161	NM_016210.2	821	agctcatgcccattgtacaacttc	359571	-	see also 22670 line
51190	LOC51186	NM_016303.1	531	tgcgttggaaggttaatacgaac	359927	-	see also 6800 line
51191	LOC51186	NM_016303.1	536	tgaagagtaatacgaacacatcc	359929	-	see also 6800 line
51192	LOC51198	NM_016349.1	176	tcgggtttggcagcagctattcg	357206	-	see also 22672 line
51193	LOC51204	NM_016360.2	734	agctcgcactcttttgacaaa	357225	-	see also 22673 line
51194	LOC51204	NM_016360.2	648	atcgaagcattatcacaagtag	357218	-	see also 22673 line
51195	LOC51204	NM_016360.2	733	gagctcgtcactcttttgacaaa	357224	-	see also 22673 line
51196	LOC51212	NM_016380.1	777	aagtggctagagcagacactattt	357249	-	see also 22674 line
51197	LOC51212	NM_016380.1	606	ctggtagaccactaggtattta	357242	-	see also 22674 line
51198	LOC51233	NM_016449.1	330	gggaagagacgcacctgtttaga	357562	-	see also 22675 line
51199	LOC51233	NM_016449.1	289	tactgaactgtgttaacactcc	357561	-	see also 22675 line
51200	LOC51234	NM_016454.2	545	tacacatcactcaggtgttag	357575	-	see also 6865 line
51201	LOC51234	NM_016454.2	497	gggttgagcctggctgtttaca	357572	-	see also 6865 line
51202	LOC51236	NM_016458.2	781	tgaacctgagcagacactctcc	357577	-	see also 22677 line
51203	LOC51240	NM_016467.3	285	gggagtgatcactatgtttgcatg	357606	-	see also 22678 line
51204	LOC51240	NM_016467.3	542	gtgttcagactcttggaattaat	357614	-	see also 22678 line
51205	LOC51244	NM_016474.3	768	gcccgtaacattgaaagacattc	357648	-	see also 6870 line
51206	LOC51244	NM_016474.3	1162	ggatggagcccggaagaagaatt	357651	-	see also 6870 line
51207	LOC51249	NM_016486.2	688	ttcatgttgctctctcttatt	357806	-	-
51208	LOC51252	NM_016486.2	882	ttcagagaaaaaggacataagaga	357807	-	see also 51207 line
51209	LOC51255	NM_016490.3	220	atcactctcgaaggcaatacctgg	357846	-	-
51210	LOC51255	NM_016494.2	33	ggcgtctatttctgatgaacacag	357847	-	-
51211	LOC51255	NM_016494.2	104	tggagctcgcgaagcgaactttc	357848	-	see also 51210 line
51212	LOC51255	NM_016494.2	255	gtgccccgtgtgtcttttgaat	357852	-	see also 51210 line
51213	LOC51308	NM_016606.1	132	gccgagacgctcaacggatatagt	358300	-	see also 6949 line
51214	LOC51315	NM_016618.1	1082	ggaggacgtaagcgtacacaaaaa	358460	-	see also 22680 line
51215	LOC51315	NM_016618.1	1057	aagccagagatgtagtctctaaga	358459	-	see also 22680 line
51216	LOC51320	NM_016626.2	866	gccatgcgtacagaaaactatat	358603	-	see also 22681 line
51217	LOC51320	NM_016626.2	691	ccttatcgtgtgtgttagattag	358596	-	see also 22681 line
51218	LOC51333	NM_016643.1	707	cgcctaactcgcactctcattcg	358678	-	see also 22682 line
51219	LOC51334	NM_016644.1	891	tggagaacagagctcgtttaatg	358685	-	see also 22683 line
51220	LOC51334	NM_016644.1	896	aacgagctcgttttaataaaaaa	358686	-	see also 22683 line
51221	LOC51668	NM_016126.1	288	acgttaaaagagcaagtgattt	356338	-	see also 22684 line
51222	LOC51668	NM_016126.1	237	aaggcttgtaatacctcaaaagtact	356336	-	see also 22684 line
51223	LOC51693	NM_016209.1	324	cagccctcagagacaacgaatt	356569	-	see also 22685 line
51224	LOC51759	NM_016482.2	595	ctgggcatcgtgctaaataaaa	357749	-	see also 22686 line

図46 (続き)

1355

51225	LOC51759	NM_016482.2	596	tgggcatcgatgctaaataaaa	357750	-	see also 22686 line
51226	LOC51759	NM_016482.2	349	ctgcaactggggacacgttttc	357739	-	see also 22686 line
51227	LOC54499	NM_019026.1	155	cggacactctctcatcgttttt	374509	-	see also 22687 line
51228	LOC54499	NM_019026.1	436	gcctaataaggaaatgttcaattc	374515	-	see also 22687 line
51229	LOC55565	NM_017530.1	768	cggaggacccgcgcgactcaactgt	358975	-	see also 22688 line
51230	LOC55565	NM_017530.1	1331	atgatgttgccagactcagtttgg	358983	-	see also 22688 line
51231	LOC55580	NM_017571.1	1642	ctcgtcgtctctgtataaata	359198	-	see also 22689 line
51232	LOC55580	NM_017571.1	995	agcgggtgcgcacacattcaag	359182	-	see also 22689 line
51233	LOC55631	NM_018447.1	330	gacagtcaagtcactaatgaag	371553	-	see also 7484 line
51234	LOC55631	NM_018447.1	645	atcgagctactcacattagatgc	371568	-	see also 7484 line
51235	LOC55908	NM_018687.3	807	acggagaattggaggtttaaag	372547	-	see also 22691 line
51236	LOC55908	NM_018687.3	575	ctctatgcccacaaatagaact	372545	-	see also 22691 line
51237	LOC55924	NM_019099.3	624	gtgttaggggacacggttttgc	375226	-	see also 22692 line
51238	LOC55924	NM_019099.3	770	cgccctgcagcagaacacatttta	375227	-	see also 22692 line
51239	LOC56181	NM_019557.3	369	ctgctcgaagtgtagtaagaaga	375309	-	see also 7713 line
51240	LOC56181	NM_019557.3	990	aggatgactgcgtctgttttgc	375319	-	see also 7713 line
51241	LOC56270	NM_019613.2	1105	cagacggcagctactacaaattc	375532	-	see also 7723 line
51242	LOC56270	NM_019613.2	601	gtgtctttgtcccaatgtaac	375520	-	see also 7723 line
51243	LOC56901	NM_020142.3	356	tgggcagcgtcgcgttacttgg	375674	-	see also 22695 line
51244	LOC56901	NM_020142.3	479	cagttccactgaactataagaag	375676	-	see also 22695 line
51245	LOC56965	NM_020213.1	1063	ctcgtgaactatgcgtttttcc	376222	-	see also 22696 line
51246	LOC56965	NM_020213.1	1297	ctctggatagtgtagtctatt	376226	-	see also 22696 line
51247	LOC57146	NM_020422.3	512	ctctctgggggctcaaatattg	377400	-	see also 22697 line
51248	LOC57146	NM_020422.3	606	cgccatgctggggatgtagatag	377403	-	see also 22697 line
51249	LOC57149	NM_020424.2	406	aacggcaacacgacagaagatcc	377407	-	see also 22698 line
51250	LOC57149	NM_020424.2	637	tcttaccacaggcccaattcatc	377413	-	see also 22698 line
51251	LOC57149	NM_020424.2	535	aacgctgttccgggaaaaacaaa	377408	-	see also 22698 line
51252	LOC57228	NM_020467.2	443	ggcagcgaagaagaggaatattt	377732	-	see also 22699 line
51253	LOC57228	NM_020467.2	478	ccaggccccaaggagcttattc	377734	-	see also 22699 line
51254	LOC57399	NM_020669.1	269	cacaagctacggtattatttaa	377903	-	-
51255	LOC57399	NM_020669.1	273	agctacggtattatttaacacc	377904	-	see also 51254 line
51256	LOC57399	NM_020669.1	154	tagcaaaaaggctgtagtaaac	377901	-	see also 51254 line
51257	LOC57821	NM_021179.1	1084	gtcaactcagatcgaagtaaaag	380633	-	see also 22700 line
51258	LOC57821	NM_021179.1	1049	caccactcaaccgcaagacttgt	380632	-	see also 22700 line
51259	LOC63920	NM_022090.2	811	atcgtatcaatttgcgtatttat	382265	-	see also 22701 line
51260	LOC63920	NM_022090.2	2257	tctctgtttctcggacatcttg	382280	-	see also 22701 line
51261	LOC63920	NM_022090.2	2264	ttctcgacatcatgtaacaaa	382282	-	see also 22701 line
51262	LOC65122	NM_023014.1	1240	ggcgcaattgcattgtctattga	384984	-	see also 22702 line
51263	LOC65122	NM_023014.1	308	atctgagcccatgaaagcatttg	384983	-	see also 22702 line
51264	LOC80298	NM_025198.2	828	atgtgttcattagcagacttttg	394330	-	see also 22703 line
51265	LOC80298	NM_025198.2	1377	atggacatctagcaaatctaaat	394343	-	see also 22703 line
51266	LOC81558	NM_030802.2	1062	cctcgacctaataatagctaca	395205	-	see also 22704 line
51267	LOC81558	NM_030802.2	332	ttcagggtccggctacatttcc	395204	-	see also 22704 line
51268	LOC81558	NM_030802.2	1067	gacctaatactagctacatttc	395206	-	see also 22704 line

図46 (続き)

1356

51269	LOC84664	NM_032577.1	595	tgcacacggtgcactctacaagt	400829	-	-	-
51270	LOC85865	NM_033107.1	667	agctgattctccgggtttaatag	403273	-	see also 22705 line	-
51271	LOC85865	NM_033107.1	882	ctgcactctctggcaggttaataa	403284	-	see also 22705 line	-
51272	LOC88523	NM_033111.2	2152	gagtcgtatcctggtgtaaaagaaa	403330	-	see also 22706 line	-
51273	LOC88523	NM_033111.2	2150	cagagtcgtatcgggtgtaaaaga	403329	-	see also 22706 line	-
51274	LOC88523	NM_033111.2	2047	acctcaaccggatataccaaga	403327	-	see also 22706 line	-
51275	LOC89894	NM_138341.1	978	atccggagccacagacattgtataa	407538	-	see also 22707 line	-
51276	LOC89894	NM_138341.1	979	tccgagccacagacattgtataag	407539	-	see also 22707 line	-
51277	LOC90050	NM_138344.2	499	ggcatccgacagtgatgtgaaga	407552	-	see also 22708 line	-
51278	LOC90167	NM_194277.1	1959	cagacatgaaacattatcgtttt	436225	-	see also 22709 line	-
51279	LOC90167	NM_194277.1	1724	aggacaagtcacacatagctatgt	436218	-	see also 22709 line	-
51280	LOC90167	NM_194277.1	606	cacaaactcgggtacttaaccaaac	436192	-	see also 22709 line	-
51281	LOC90268	NM_138348.3	726	ctgaggacgatcggcactataac	407558	-	see also 22710 line	-
51282	LOC90268	NM_138348.3	508	tgcctgggacacatacaatgacc	407557	-	see also 22710 line	-
51283	LOC90313	NM_138349.2	753	atccctggtagggagagtaatgc	407561	-	see also 22711 line	-
51284	LOC90313	NM_138349.2	618	ccaggcagccctctcttagtgg	407560	-	see also 22711 line	-
51285	LOC90355	NM_033211.2	571	cccgctccctcgtctgtgataaa	403583	-	see also 9380 line	-
51286	LOC90355	NM_033211.2	570	gcccgttcctcgtctgtgataaa	403582	-	see also 9380 line	-
51287	LOC90355	NM_033211.2	572	ccgctcctcgtctgtgataaa	403584	-	see also 9380 line	-
51288	LOC90378	NM_138352.1	1394	tggatgtcgtcgaatattttact	407565	-	see also 22713 line	-
51289	LOC90378	NM_138352.1	1393	atggatgtcgtcgaatattttac	407564	-	see also 22713 line	-
51290	LOC90410	NM_174887.2	274	cagaaaatagtgtgtgttttaac	428526	-	-	-
51291	LOC90522	NM_033557.1	194	gacccacacagcttttccgatga	404131	-	see also 22714 line	-
51292	LOC90522	NM_033557.1	256	ggcacctgtgtgctcgtgatttcc	404132	-	see also 22714 line	-
51293	LOC90522	NM_033557.1	991	ggcgcagccttatgctcgttact	404140	-	see also 22714 line	-
51294	LOC90529	NM_178122.2	457	tcgagccgggtttatgcaaaaa	430448	-	see also 22715 line	-
51295	LOC90529	NM_178122.2	456	ctcgagccgggtttatgcaaaa	430447	-	see also 22715 line	-
51296	LOC90580	NM_138358.2	86	cggctctgaggagatttgggtcc	407603	-	see also 22716 line	-
51297	LOC90624	NM_181705.1	40	ggcacggcgagctcaaggttttac	432838	-	see also 22717 line	-
51298	LOC90624	NM_181705.1	39	tgggacggcgagctcaaggtttta	432837	-	see also 22717 line	-
51299	LOC90736	NM_138362.1	237	tactgaaccccgatgcaaaccttc	407611	-	see also 22718 line	-
51300	LOC90736	NM_138362.1	134	aagatacagaggtattttcatgg	407610	-	see also 22718 line	-
51301	LOC90768	NM_178838.2	780	tcgcccacccctccacttcagc	432008	-	see also 22719 line	-
51302	LOC90799	NM_138363.1	2045	atogttcgtctcgaataatatta	407660	-	see also 22720 line	-
51303	LOC90799	NM_138363.1	291	aggtcagctgtctcacataaca	407621	-	see also 22720 line	-
51304	LOC90806	NM_144567.2	1095	atccaaggcgaggtgattataag	409720	-	see also 22721 line	-
51305	LOC90806	NM_144567.2	1099	aaggcgaggtgattataagctga	409722	-	see also 22721 line	-
51306	LOC90850	NM_178167.2	1896	ggcaggtccgctcgtctgtaag	430558	-	see also 22722 line	-
51307	LOC90850	NM_178167.2	2385	ctccgagcccgaggtattataaga	430559	-	see also 22722 line	-
51308	LOC90925	NM_175870.3	138	ctctgagatctcctgaagaact	429375	-	-	-
51309	LOC91056	NM_138368.2	2054	taccagctactgttagcaatcc	407758	-	see also 22723 line	-
51310	LOC91056	NM_138368.2	1238	gagtgctaccctcaactttctac	407755	-	see also 22723 line	-
51311	LOC91272	NM_138369.1	520	atggatctcagtgacaacaaa	407759	-	-	-
51312	LOC91272	NM_138369.1	521	tggaaatcctcagtgacaacaaa	407760	-	see also 51311 line	-

図46 (続き)

1357

51313	LOC91526	NM_153697.1	1979	cccgaggcggtcggatgaaag	423640	-	see also 10007 line
51314	LOC91526	NM_153697.1	1280	cagcggagcagatccataaaa	423615	-	see also 10007 line
51315	LOC91689	NM_033318.3	86	agcggtcgctgctagtagttgg	403699	-	see also 22725 line
51316	LOC91689	NM_033318.3	138	ggcccttagtggaggaagatgg	403700	-	see also 22725 line
51317	LOC91752	NM_194250.1	2896	ttctatcgaaacgtagacaaca	436124	-	see also 10304 line
51318	LOC91752	NM_194250.1	3122	atcctcgtataggttaataagt	436136	-	see also 10304 line
51319	LOC91752	NM_194250.1	3560	ctgagtggtcggtataattca	436149	-	see also 10304 line
51320	LOC91937	NM_138379.1	1166	aagcaagaagcggccttttacc	407820	-	see also 22727 line
51321	LOC91937	NM_138379.1	408	tggctgttcaacgatgtaaga	407812	-	see also 22727 line
51322	LOC91947	NM_183376.1	452	ggccggtgaagcgcattttat	435723	-	see also 22728 line
51323	LOC91947	NM_183376.1	229	agcgcaaggctgctattccagc	435722	-	see also 22728 line
51324	LOC91966	NM_178124.3	771	aagtttggtcgaggatgatagc	430466	-	see also 22729 line
51325	LOC91966	NM_178124.3	820	tgcgaatgcccgagagacttaact	430469	-	see also 22729 line
51326	LOC92170	NM_138384.1	774	tagcttgcgcgaacactttgg	407827	-	see also 22730 line
51327	LOC92170	NM_138384.1	426	accgctaccacgcaaaagagaac	407825	-	see also 22730 line
51328	LOC92305	NM_138385.1	749	atgtgcttgcggttcagaaaa	407829	-	-
51329	LOC92305	NM_138385.1	1006	accagtgccggtggtgtgta	407832	-	see also 51328 line
51330	LOC92305	NM_138385.1	751	gtgcttgcggttcagaaaaagc	407830	-	see also 51328 line
51331	LOC92345	NM_138386.1	1281	ggcgatgcaaaagatatagtaa	407855	-	see also 22731 line
51332	LOC92345	NM_138386.1	845	gactaacactcctccagtaatg	407840	-	see also 22731 line
51333	LOC92345	NM_138386.1	1122	ggggccttagatttttagtgatga	407850	-	see also 22731 line
51334	LOC92346	NM_139240.2	643	agctgttccacgggtacttga	409480	-	see also 22732 line
51335	LOC92346	NM_139240.2	664	gacagagccctacaaaactaa	409461	-	see also 22732 line
51336	LOC92689	NM_138389.1	1506	tacatgctgcgctcgaagtct	407907	-	see also 9605 line
51337	LOC92689	NM_138389.1	429	gacgtgactgaggtacacttgc	407886	-	see also 9605 line
51338	LOC92691	NM_138390.2	478	agcgcctacgtcaccttaactgc	407928	-	see also 22734 line
51339	LOC92691	NM_138390.2	346	taccgctcagcaaatgagaaaac	407922	-	see also 22734 line
51340	LOC92715	NM_138778.1	836	gggtacccggcaatttctcttc	408748	-	see also 22735 line
51341	LOC92715	NM_138778.1	832	accagggtaccgcgcaatttct	408746	-	see also 22735 line
51342	LOC92979	NM_138396.3	1344	agcgtcgcggtatacaactttg	407952	-	see also 22736 line
51343	LOC92979	NM_138396.3	1341	ctcagcgcgtcggttatcaatc	407951	-	see also 22736 line
51344	LOC93109	NM_138399.2	398	gtggatcacaattcaagtctaat	407959	-	see also 22737 line
51345	LOC93109	NM_138399.2	319	ctcacaatccaggttttcaactgg	407956	-	see also 22737 line
51346	LOC93343	NM_138401.1	172	aagagcttcgcgcgaaaatctgg	407964	-	see also 22738 line
51347	LOC93343	NM_138401.1	427	aagacagtgctcgatataccttcg	407966	-	see also 22738 line
51348	LOC93380	NM_173470.1	466	acctgtacggtatagttcatat	424895	-	see also 10066 line
51349	LOC93380	NM_173470.1	472	tacggtaggttcatattgcagg	424897	-	see also 10066 line
51350	LOC93380	NM_173470.1	465	tactgttacggtatagttcata	424894	-	see also 10066 line
51351	LOC93426	NM_130784.1	180	cccgagttgaggtcctgattaac	406926	-	see also 22740 line
51352	LOC93426	NM_130784.1	295	ctcgcgtcatggagagaagtagc	406927	-	see also 22740 line
51353	LOH1CR2	NM_014622.3	612	agcatggtgcaccaccatagattc	341387	-	see also 22741 line
51354	LOH1CR2	NM_014622.3	1268	cacgttttagtgaattaaagaag	341403	-	see also 22741 line

図46 (続き)

1358

51355	LOH12CR1	NM_058169.2	607	ctgctccgatacaagaatcacc	406194	-	see also 22742 line
51356	LOH12CR1	NM_058169.2	605	ctctgctccgatacaagaatcacc	406193	-	see also 22742 line
51357	LOH3CR2	NM_013343.1	601	ggcaacaacagtgctacatacc	338779	-	see also 22743 line
51358	LOH3CR2	NM_013343.1	740	agcaacaacagccaataagcttt	338784	-	see also 22743 line
51359	LOST1	NM_172367.1	782	tggctgggctcgaagattacc	424477	-	see also 22744 line
51360	LOST1	NM_172367.1	836	tggcogtgacgctcaacttcaca	424478	-	see also 22744 line
51361	LPPR2	NM_022737.1	1266	tggatagcccccctgaaagaac	383792	-	see also 22745 line
51362	LPPR2	NM_022737.1	1180	cacctgggttgatataacttic	383788	-	see also 22745 line
51363	LR8	NM_014020.2	291	gagcaaaaacacgattgtga	339206	-	see also 22746 line
51364	LR8	NM_014020.2	965	gagtaggtcttcgaaactgtgt	339214	-	see also 22746 line
51365	LRIG1	NM_015541.1	1612	aacgagatttggggcacataga	353809	-	see also 22747 line
51366	LRIG1	NM_015541.1	996	tccacacggaccgctataaagg	353804	-	see also 22747 line
51367	LRIG1	NM_015541.1	2471	tgcggatgacgacgtgttttc	353820	-	see also 22747 line
51368	LRP11	NM_032832.3	1740	gaactagactgtgaacacagaa	401814	-	see also 22748 line
51369	LRP11	NM_032832.3	1447	ggatgactccttggggaaagt	401809	-	see also 22748 line
51370	LRP15	NM_052953.2	1063	gagcatggcgtccaatcatgaga	405523	-	see also 22749 line
51371	LRP15	NM_052953.2	1086	cagcccaacaogtgatctgtaa	405524	-	see also 22749 line
51372	LRP16	NM_014067.2	596	ggcgtggagcggctgattcatcg	339516	-	see also 22750 line
51373	LRP16	NM_014067.2	378	agcggggaggaacattactctgc	339515	-	see also 22750 line
51374	Lrp2bp	NM_181726.1	671	gagtcctgggaagttagaanaa	433044	-	see also 22751 line
51375	Lrp2bp	NM_181726.1	669	cggagctctggaagttagaana	433043	-	see also 22751 line
51376	Lrp2bp	NM_181726.1	673	gtctgggaagttagaanaatacc	433045	-	see also 22751 line
51377	LRRG1	NM_025168.1	807	tccagctagtcacaattacgaaa	368508	-	see also 22752 line
51378	LRRG1	NM_025168.1	808	tccagctagtcacaattacgaaa	368509	-	see also 22752 line
51379	LRRG16	NM_017640.2	1571	aagcagattctcggaanaagtag	359922	-	see also 22752 line
51380	LRRG16	NM_017640.2	1059	cagtaaacgttcacatcatcca	359911	-	see also 22753 line
51381	LRRG17	NM_005824.1	436	tccggtggaogtgatcacatat	334277	-	see also 22754 line
51382	LRRG17	NM_005824.1	843	aactacggcaagtggaagtc	334295	-	see also 22754 line
51383	LRRG17	NM_005824.1	440	gtgtgacgtgtacacatatctcc	334280	-	see also 22754 line
51384	LRRG19	NM_022901.1	931	ctgaagacttcaacttctcattt	384746	-	see also 22755 line
51385	LRRG19	NM_022901.1	967	tgcacaatgtgtacacattct	384749	-	see also 22755 line
51386	LRRG2	NM_024512.2	914	ggccgacctgcccgaagatag	386549	-	see also 22756 line
51387	LRRG2	NM_024512.2	1165	gtgaacggatcgccacaatttt	386557	-	see also 22756 line
51388	LRRG3	NM_030891.1	665	atgcctacgtgtgtactatgt	395353	-	see also 22756 line
51389	LRRG3	NM_030891.1	667	cgctacgtctgtactatgtgc	395354	-	see also 22756 line
51390	LRRG3	NM_030891.1	410	ggcaaacatcgccgaagatag	395352	-	see also 22756 line
51391	LRRG4	NM_022143.3	1537	aggaacacacggaagtagaag	382491	-	see also 22757 line
51392	LRRG5	NM_018103.3	1980	tcttcggcatcacttgatgac	366760	-	see also 22757 line
51393	LRRG5	NM_018103.3	2131	cggagagtgccgacacttaaga	366768	-	see also 22757 line
51394	LRRG8	NM_019594.1	933	tgcgctcaagaggaacactaagc	375436	-	see also 22758 line
51395	LRRG8	NM_019594.1	719	cacacagcggcgaagattgaagc	375434	-	see also 22758 line
51396	LRRN1	NM_020873.3	724	accgagatgactgattactgtct	379808	-	see also 8011 line
51397	LRRN1	NM_020873.3	1417	ctgctgagatcagatcatcatag	379816	-	see also 8011 line
51398	LRRN3	NM_018334.3	1625	ctgatttcacatagatgtcttgc	370479	-	see also 7407 line

図46 (続き)

1359

51399	LRRN3	NM_018334.3	1560	tacgaagggtgatttagcaat	370477	-	see also 7407 line
51400	LRRN4	NM_002319.2	1181	agcagcaccacccgaattaaagc	330869	-	see also 22761 line
51401	LRRN4	NM_002319.2	1883	ttctagaagccctgtcgaataatg	330873	-	see also 22761 line
51402	LSR7	NM_018559.2	748	caaatctagatgatcaaatct	372225	-	see also 22762 line
51403	LSR7	NM_018559.2	1098	caacagcgaaggaagaatattgtt	372239	-	see also 22762 line
51404	LSR7	NM_018559.2	1096	ttcacacggcgaaggaagaatatt	372238	-	see also 22762 line
51405	LUC7L	NM_018032.2	965	ttccggtctccggagatagacatcg	365520	-	see also 7214 line
51406	LUC7L	NM_018032.2	939	ccgagagagcagcgaagaattgtcc	365517	-	see also 7214 line
51407	LUC7L	NM_018032.2	1044	accgaagtgcgaataatacaagtaa	365523	-	see also 7214 line
51408	LUC7L2	NM_016019.1	52	ttccggagcggagatacaactcg	355880	-	see also 6617 line
51409	LUC7L2	NM_016019.1	956	gtcggcacagtcttagagatagg	355895	-	see also 6617 line
51410	LXN	NM_020169.2	821	ttcacaaatcagcgaactaaagtaa	375749	-	see also 22763 line
51411	LXN	NM_020169.2	828	tacggcaactaagtaaacataaa	375751	-	see also 22763 line
51412	LY6G6C	NM_025261.1	192	atgccctgacacacatgcatacc	394623	-	see also 22764 line
51413	LY6G6C	NM_025261.1	196	ctgacaacacatgcatacttgg	394624	-	see also 22764 line
51414	LY6G6D	NM_021246.1	809	accgaatgggtgtctacaactgt	380900	-	see also 22765 line
51415	LY6G6D	NM_021246.1	964	gtcggcagcccatctgcaatca	380902	-	see also 22765 line
51416	LY6G6D	NM_021246.1	377	ttgctaaaaggatcccatgtattct	380896	-	see also 22765 line
51417	LYAR	NM_017816.1	285	ttgattgactgcggtaagaattt	362687	-	see also 22766 line
51418	LYAR	NM_017816.1	284	ttgattgactgcggtaagaattt	362686	-	see also 22766 line
51419	LYRIC	NM_178812.2	1821	cagccgaagtactgtcaaaaat	431364	-	see also 10201 line
51420	LYRIC	NM_178812.2	1435	cgttaataccctataatagatg	431359	-	see also 10201 line
51421	LZIC	NM_032368.3	355	atgactttgtagatgaactaaag	400009	-	see also 22768 line
51422	LZIC	NM_032368.3	627	ttctatactagccagtttgaga	400014	-	see also 22768 line
51423	LZK1	NM_024835.1	717	ctccgagcatacaatattcttat	391307	-	see also 8772 line
51424	LZK1	NM_024835.1	1042	ttgattgtttacgcgaagatttt	391315	-	see also 8772 line
51425	LZTFL1	NM_020347.1	177	ttcgttttctctgttcaaaagaga	376777	-	see also 22770 line
51426	LZTFL1	NM_020347.1	847	gacagccagcagcagatctactca	376793	-	see also 22770 line
51427	LZTR1	NM_006767.1	1186	ctcggagcccatgtacatcttctg	336309	-	see also 4772 line
51428	LZTR1	NM_006767.1	1059	agcggattgtcttcaagaagtcc	336307	-	see also 4772 line
51429	M-RIP	NM_015134.1	2996	cacgggttccggatattgataaa	348564	-	see also 22772 line
51430	M-RIP	NM_015134.1	2994	gccaggtgtccggatattgatat	348563	-	see also 22772 line
51431	M-RIP	NM_015134.1	1353	gactgttccgcattgtacagatgt	348552	-	see also 22772 line
51432	M17S2	NM_005899.2	169	ctgatatcgaagcattgtgtaaaa	334440	-	see also 4109 line
51433	M17S2	NM_005899.2	1499	ctggtgcagtaataatagatgc	334469	-	see also 4109 line
51434	MAB21L1	NM_005584.2	1474	tactttctacgcgaacttagatct	334109	-	see also 22774 line
51435	MAB21L1	NM_005584.2	1349	tggttcttaccagtgtaaaag	334105	-	see also 22774 line
51436	MAD21L1B	NM_014628.1	286	aagcacttttaccgaataaaccttc	341433	-	see also 22775 line
51437	MAD21L1B	NM_014628.1	82	cacggctctccagatagagactact	341427	-	see also 22775 line
51438	MAD21L1B	NM_014628.1	36	agccacagtccctgatttggagt	341426	-	see also 22775 line
51439	MAF1	NM_032272.2	983	ctcaagcgaactgtctcttttag	399306	-	see also 9132 line
51440	MAF1	NM_032272.2	987	agcgaatctgtcttcttttagctgc	399307	-	see also 9132 line
51441	MAGEA10	NM_021048.3	996	ctcatacttactcctaagcataat	380495	-	see also 22777 line
51442	MAGEA10	NM_021048.3	501	ttctgtctatctcttaataccaag	380489	-	see also 22777 line

図46 (続き)

1360

51443	MAGEA10	NM_021048.3	1187	tctgcacagtgatgagttctgt	380496	-	see also 22777 line	
51444	MAGEA2	NM_005361.2	1336	tctgcacaccatcacataaagtc	333658	-	-	melanoma(メラノーマ)
51445	MAGEA8	NM_005364.3	834	atgtctctggcctgatctttaat	333663	-	see also 22778 line	
51446	MAGEA8	NM_005364.3	276	gagccacacagcgttatgagtg	333659	-	see also 22778 line	
51447	MAGEB1	NM_002363.3	1264	cccaagtcctgcctccagttaga	330880	-	see also 22779 line	
51448	MAGEB1	NM_002363.3	845	caacctctcagtaagctaaacc	330877	-	see also 22779 line	
51449	MAGEB1	NM_002363.3	669	cacttcattctacgaagataaa	330875	-	see also 22779 line	
51450	MAGEB2	NM_002364.3	1001	tgcttcccaacccatcagaag	330885	-	see also 22780 line	
51451	MAGEB2	NM_002364.3	613	acccaaacggccacacattacac	330884	-	see also 22781 line	
51452	MAGEB3	NM_002365.2	840	accgacaagtcaccaacagtaat	330896	-	see also 22781 line	
51453	MAGEB3	NM_002365.2	271	caccactacatctgtagatgttt	330888	-	see also 22781 line	
51454	MAGEB3	NM_002365.2	807	cccaagatttggaagcttaaa	330894	-	see also 22781 line	
51455	MAGEB4	NM_002367.2	307	atgtcatgcactggatctgataa	330898	-	see also 22782 line	
51456	MAGEB4	NM_002367.2	330	agcgcagcagagccaagatgagg	330899	-	see also 22782 line	
51457	MAGEB6	NM_173523.2	863	cagaacctcccaacatttggtgg	425439	-	see also 22783 line	
51458	MAGEB6	NM_173523.2	953	agcctccacagtgagggaattc	425440	-	see also 22783 line	
51459	MAGEC1	NM_005462.2	3453	acgggaggtgcccactcttct	333851	-	see also 22784 line	
51460	MAGEC1	NM_005462.2	3567	cgtccctattacotttccatcc	333854	-	see also 22784 line	
51461	MAGEC3	NM_138702.1	1445	tgctgacgactgtcatcaagaag	408619	-	see also 22785 line	
51462	MAGEC3	NM_138702.1	1462	agaaagataaggactattttcc	408620	-	see also 22785 line	
51463	MAGEC3	NM_138702.1	1551	ccccgacaacactctatttct	408623	-	see also 22785 line	
51464	MAGED1	NM_006986.2	854	ctggagctccggacaataattcg	336684	-	see also 22786 line	
51465	MAGED1	NM_006986.2	886	gaccgcagatgaataaacttga	336687	-	see also 22786 line	
51466	MAGED2	NM_014599.4	1530	ggcgatggagcgggattgaagg	340986	-	see also 5768 line	
51467	MAGED2	NM_014599.4	1297	ctgcgcctctggagatcacatctc	340982	-	see also 5768 line	
51468	MAGED4	NM_030801.2	367	ggccttcgcatcttctgaatga	395191	-	see also 22788 line	
51469	MAGED4	NM_030801.2	366	agcccttcgcactcttctgaatg	395190	-	see also 22788 line	
51470	MAGEE1	NM_016249.2	369	tcattccgcgaacgttgacaacg	356608	-	see also 22789 line	
51471	MAGEE1	NM_016249.2	396	cccgacctcagttgagtagaag	356610	-	see also 22789 line	
51472	MAGEE1	NM_016249.2	354	tcgccgtccagggcgttccattcc	356607	-	see also 22789 line	
51473	MAGEF1	NM_022149.3	671	ggcccaagattgggtctgttaat	382534	-	see also 22790 line	
51474	MAGEF1	NM_022149.3	699	tcctgggcttctctatagaga	382538	-	see also 22790 line	
51475	MAGEH1	NM_014061.3	692	tgccgagagggtacctgatttat	339495	-	see also 22791 line	
51476	MAGEH1	NM_014061.3	549	gtctatatagcgtcattcttca	339493	-	see also 22791 line	
51477	MAIL	NM_031419.1	383	aagggttcctgggttaagaactca	396859	-	see also 22792 line	
51478	MAIL	NM_031419.1	2024	tgcatgatacaggtgacacaatta	396889	-	see also 22792 line	
51479	MAMDC1	NM_182830.2	734	agcatcacccgtcaattaaactct	435299	-	see also 22793 line	
51480	MAMDC1	NM_182830.2	1765	tacggacgggtcaattgactct	435342	-	see also 22793 line	
51481	MAML1	NM_014757.2	571	cggccacgcattctcatgataca	343126	-	see also 22794 line	
51482	MAML1	NM_014757.2	1744	caccgagtaactgaatcagaac	343148	-	see also 22794 line	
51483	MAML3	NM_018717.2	838	cggggttcgggtgaataact	372838	-	see also 22795 line	
51484	MAML3	NM_018717.2	778	ctgcgcgcgaatggcagtagatt	372833	-	see also 22795 line	
51485	MAN1A1	NM_005907.2	2066	tacattacggccgagaagtat	334524	-	see also 4122 line	
51486	MAN1A1	NM_005907.2	1795	gtctagcagcgggaactata	334520	-	see also 4122 line	

1361

図46 (続き)

51487	MANEA	NM_024641.1	800	aacactcgggaacccaatcaatgg	388450	-	see also 22797 line
51488	MANEA	NM_024641.1	810	accgaatcaatgggaagtattat	388452	-	see also 22797 line
51489	MAP1LC3	NM_032514.2	430	cacgcccatcggcggacatctacg	400511	-	see also 22798 line
51490	MAP4K4	NM_004834.2	2554	caccocggagatgtaataaca	333077	-	see also 3349 line
51491	MAP4K4	NM_004834.2	2723	gaagtactggaggcttggaatgt	333085	-	see also 3349 line
51492	MBD3L1	NM_145208.1	542	tgcggatggactcgaataagag	413771	-	see also 22800 line
51493	MBD3L1	NM_145208.1	49	aacgtgaactgttaaaccaatgc	413766	-	see also 22800 line
51494	MBD6	NM_052897.1	1361	gacccctactgtattctgattg	404756	-	see also 22801 line
51495	MBD6	NM_052897.1	1362	acccctactgtattctgattg	404757	-	see also 22801 line
51496	MBD6	NM_052897.1	3131	acccctaccgggaacagcaatagc	404770	-	see also 22801 line
51497	MBTD1	NM_017643.1	1209	agccacaagtaactcgaattatc	359975	-	see also 7066 line
51498	MBTD1	NM_017643.1	1186	atggagccacgtttaatatgtgt	359972	-	see also 7066 line
51499	MCC2	NM_031941.2	1414	agcgcgttctctaatgaagatt	397429	-	see also 22803 line
51500	MCC2	NM_031941.2	1029	aagctcaaatgcttaatttgtct	397427	-	see also 22803 line
51501	MCLC	NM_015127.2	815	tactagtaaacctatttgggtg	348515	-	see also 6257 line
51502	MCLC	NM_015127.2	1186	ggcccttatgccaacacgaatga	348526	-	see also 6257 line
51503	MCM10	NM_018518.3	246	gacggcgaggggaatcttatac	372061	-	see also 22805 line
51504	MCM10	NM_018518.3	249	ggcgacgggtgaatcttatcaga	372063	-	see also 22805 line
51505	S	NM_018118.1	790	gacacatatgctcacaaatgatgg	366859	-	see also 22806 line
51506	S	NM_018118.1	699	tagggataataagtaacagtaacc	366855	-	see also 22806 line
51507	MDAC1	NM_139172.1	69	ctcggcagcaggaatggaaatcc	409418	-	-
51508	MDS006	NM_020233.3	91	ggcgtaactcgcagatgttcaatt	376344	-	see also 22807 line
51509	MDS006	NM_020233.3	154	cgcgatactacacacatagctct	376347	-	see also 22807 line
51510	MDS009	NM_020234.3	581	tacagtatcctgtattctcaga	376381	-	see also 22808 line
51511	MDS009	NM_020234.3	993	tagactaacatactgatataatta	376396	-	see also 22808 line
51512	MDS010	NM_020231.3	455	atcaatgtacagattatctctca	376320	-	see also 7808 line
51513	MDS010	NM_020231.3	452	gtgatcaatgtacagagattatcc	376319	-	see also 7808 line
51514	MDS018	NM_021823.2	207	ctctctgtgtgtaaaagcttttg	381068	-	-
51515	MDS025	NM_021825.3	406	gaggagatcgttggttttcaagg	381102	-	see also 8178 line
51516	MDS025	NM_021825.3	454	tgcggagagagttcttactacc	381104	-	see also 8178 line
51517	MDS027	NM_018462.3	126	ctcaactcgttcgtatgtcttg	371871	-	see also 7487 line
51518	MDS027	NM_018462.3	73	accggaggtacatggagataatc	371868	-	see also 7487 line
51519	MDS029	NM_018464.1	326	ggcgttggtggaggtccaaaag	371884	-	see also 22812 line
51520	MDS029	NM_018464.1	147	atgagtcacagcagttaccattg	371880	-	see also 22812 line
51521	MDS031	NM_018466.2	185	tfcagtaactgagtcgttactct	371900	-	see also 22813 line
51522	MDS031	NM_018466.2	314	aagccactcgttagtgggtataaa	371904	-	see also 22813 line
51523	MDS032	NM_018467.1	37	ggcgtgagcgtggagctaaacc	371915	-	see also 22814 line
51524	MDS032	NM_018467.1	786	tfcgaatcatgcctaaactcaa	371921	-	see also 22814 line
51525	MDS2	NM_148895.1	643	gagggtaattggaggttttatca	415160	-	see also 22815 line
51526	MDS2	NM_148895.1	645	gggttaattggaggttttatcaag	415161	-	see also 22815 line
51527	MDS2	NM_148895.1	589	tgtccagcgtcgagatttatt	415159	-	see also 22815 line
51528	MEOT1	NM_015321.1	29	tfcgaacaatccgggaattca	351496	-	see also 22816 line

図46 (続き)

1362

51529	MECT1	NM_015321.1	183	ccagccgaggcccgctactatgg	351498	-	see also 22816 line
51530	MED8	NM_052877.1	489	ggccgaacaagcagaccccttaac	404583	-	receptor activity, transcription_regulat or
51531	MED8	NM_052877.1	270	aaggacgggtgcctgttttcagc	404579	-	see also 51530 line
51532	MED8	NM_052877.1	490	gcgaacaagcagaccccttaacc	404584	-	see also 51530 line
51533	MEP50	NM_024102.2	597	cagcgaggagaacaatgaatttac	386037	-	see also 22817 line
51534	MEP50	NM_024102.2	948	gaattgtcccgctcaatcaact	386040	-	see also 22817 line
51535	MEP50	NM_024102.2	506	agcaggtgtactgagttcatcac	386036	-	see also 22817 line
51536	MESDC1	NM_022566.1	1698	taccgccagtggaattccaattct	383580	-	see also 22818 line
51537	MESDC1	NM_022566.1	1645	agctgcacccctgtatatcagg	383577	-	see also 22818 line
51538	MFN2	NM_014874.1	1509	agcggcaagaccgactgaattt	345077	-	see also 6074 line
51539	MGC10084	NM_153702.1	117	ttctatgggcacttttttgatt	423677	-	see also 10010 line
51540	MGC10084	NM_153702.1	270	cagaaggcgaacacattgttca	423683	-	see also 10010 line
51541	MGC10120	NM_173809.1	287	agcttacaagttgagtgcatatt	428202	-	see also 22821 line
51542	MGC10120	NM_173809.1	95	ggccacacagtgaagactataagc	428197	-	see also 22821 line
51543	MGC10198	NM_152682.1	481	aaccgtatgacctatcacattgt	419737	-	see also 22822 line
51544	MGC10198	NM_152682.1	238	agcattacgtctctatttatgaag	419729	-	see also 22822 line
51545	MGC10200	NM_145060.1	633	tcocgttaacctataatcaaat	413350	-	see also 22823 line
51546	MGC10200	NM_145060.1	632	atcccgcttaacctataatcaaa	413349	-	see also 22823 line
51547	MGC10233	NM_152715.1	727	ctgctcctggcccaacaatcattt	420022	-	see also 22824 line
51548	MGC10233	NM_152715.1	971	aacttaaggcagcgggtgtact	420034	-	see also 22824 line
51549	MGC10233	NM_152715.1	689	tacgaaagttaggggttatgttt	420020	-	see also 22824 line
51550	MGC10540	NM_032353.2	256	gtgatccagattgtattagagg	399919	-	see also 22825 line
51551	MGC10540	NM_032353.2	297	acctgagtggttggaatagagc	399920	-	see also 22825 line
51552	MGC10540	NM_032353.2	251	gtggagtgcagcagattgtatt	399917	-	see also 22825 line
51553	MGC10744	NM_032354.2	450	tgactactgattgtgacatttt	399928	-	see also 22826 line
51554	MGC10744	NM_032354.2	169	tgggtgctgcctcaccttattc	399926	-	see also 22826 line
51555	MGC10765	NM_024345.1	441	gccccgatggagcgaatgtttct	386354	-	see also 8613 line
51556	MGC10765	NM_024345.1	440	agccccgatggcgaatgtttc	386353	-	see also 8613 line
51557	MGC10812	NM_031425.1	204	ccgggtgagcgcctgaacatacc	396929	-	-
51558	MGC10812	NM_031425.1	203	tccgggtggagcgcctgaacatac	396928	-	see also 51557 line
51559	MGC10870	NM_032301.1	1307	tgacccgaaggcagatgaacaatgg	399558	-	see also 22828 line
51560	MGC10870	NM_032301.1	1317	ggcatgacaatgggctcaatagg	399559	-	see also 22828 line
51561	MGC10911	NM_032302.1	408	agcctgtgcttcacacacaaagt	399561	-	see also 22829 line
51562	MGC10911	NM_032302.1	451	ctctcatcatgctctttgcaaaag	399562	-	see also 22829 line
51563	MGC10946	NM_030572.1	294	cacagggtgcgcgctcatctcc	394686	-	-
51564	MGC10946	NM_030572.1	368	agcccaaatcccaactcctaac	394687	-	see also 51563 line
51565	MGC10946	NM_030572.1	369	gcccnaatcccaactactaact	394688	-	see also 51563 line
51566	MGC10955	NM_032676.2	229	gcgagcagctgctgaacacagg	401211	-	see also 22830 line
51567	MGC10992	NM_033212.2	1033	ctggcgttgagcaggaacattga	403595	-	see also 22831 line
51568	MGC10992	NM_033212.2	1035	ggcgttgagcaggaacattgaga	403596	-	see also 22831 line
51569	MGC10993	NM_030577.1	475	aaccatccctgggtcatatagg	394693	-	see also 22832 line
51570	MGC10993	NM_030577.1	455	gagacctagtatcaacactaac	394692	-	see also 22832 line

図46 (続き)

1363

51571	MGC11061	NM_032312.2	570	tcacatgataatattatggaca	399656	-	see also 9153 line
51572	MGC11061	NM_032312.2	691	aagtcctggaggtataggatat	399667	-	see also 9153 line
51573	MGC11082	NM_032691.1	895	caatcctatggcttggcaaat	401231	-	see also 22834 line
51574	MGC11082	NM_032691.1	852	aacacatttttcaaatcttc	401230	-	see also 22834 line
51575	MGC11115	NM_032310.2	699	agcatggggcattcttaagtc	399648	-	see also 22835 line
51576	MGC11115	NM_032310.2	351	gcgggactgccaggaggtctacc	399644	-	see also 22835 line
51577	MGC11242	NM_024320.2	252	aggcccaacagcgactttaaca	386253	-	see also 22836 line
51578	MGC11242	NM_024320.2	384	ccctaaccctttgatgacag	386256	-	see also 22836 line
51579	MGC11257	NM_032350.3	1218	ctgcagatggggcccaaaacaca	399870	-	-
51580	MGC11266	NM_024322.1	876	gagtcacccgtgacatgcaagg	386274	-	see also 22837 line
51581	MGC11266	NM_024322.1	959	tacgaagcccttgatcaagtgt	386278	-	see also 22837 line
51582	MGC1203	NM_024296.2	346	gacggaggtagctgagtctatg	386202	-	see also 22838 line
51583	MGC1203	NM_024296.2	347	accgaggtagctgagtctatga	386203	-	see also 22838 line
51584	MGC1203	NM_024296.2	712	agccctccaggagattcaaca	386208	-	see also 22838 line
51585	MGC12197	NM_016625.2	501	tagtcggctcgggatatagagac	358577	-	see also 6961 line
51586	MGC12197	NM_016625.2	112	atgggacgtcgatcatcagatac	358561	-	see also 6961 line
51587	MGC12909	NM_145055.1	180	aagatgggtgtgcggattctaca	413306	-	see also 9769 line
51588	MGC12965	NM_198519.1	1195	ttgatcgtgtattgaagaagtg	438954	-	see also 22842 line
51589	MGC12965	NM_198519.1	1617	ttgtccaatgtagaataacaaa	438960	-	see also 22842 line
51590	MGC12966	NM_032706.1	376	gtccgctcgaagttcattatga	401245	-	see also 22843 line
51591	MGC12972	NM_032683.1	423	tgtcgcgagttctggaactcc	401218	-	see also 22844 line
51592	MGC12972	NM_032683.1	110	gcgcgtcgtcgtcactaacacg	401213	-	see also 22844 line
51593	MGC12981	NM_032357.2	587	cccccgaactggtttggaatcc	399933	-	see also 22845 line
51594	MGC12981	NM_032357.2	586	acccctggaactggtttggaato	399932	-	see also 22845 line
51595	MGC12992	NM_032342.1	1465	gcgaacacctgtgaacacacatcg	399839	-	see also 22846 line
51596	MGC12992	NM_032342.1	1464	agccgaacctgtgaacacacatc	399838	-	see also 22846 line
51597	MGC12992	NM_032342.1	453	acccgactctacactcttacttc	399825	-	see also 22846 line
51598	MGC13010	NM_032687.2	703	gtcttcacggccacacacttatgg	401222	-	see also 22847 line
51599	MGC13010	NM_032687.2	527	ttccctctggccttcgatttc	401219	-	see also 22847 line
51600	MGC13016	NM_032343.1	484	gacccgtgacacaccttctacaag	399845	-	see also 22848 line
51601	MGC13016	NM_032343.1	320	tgctgtatcagagataagctct	399844	-	see also 22848 line
51602	MGC13024	NM_152288.1	954	accggtgggctcgtgtgttg	415378	-	see also 22849 line
51603	MGC13024	NM_152288.1	802	tccttagtcacgctccn-atct	415377	-	see also 22849 line
51604	MGC13034	NM_153217.1	679	cacaggcccaatcctgatttga	422221	-	see also 22850 line
51605	MGC13034	NM_153217.1	750	tcctccctcttgaaagaaat	422224	-	see also 22850 line
51606	MGC13034	NM_153217.1	749	ctctccctcttgaaagaaata	422223	-	see also 22850 line
51607	MGC13040	NM_032930.1	407	atcggaagatgattcgttatg	402527	-	see also 22851 line
51608	MGC13040	NM_032930.1	402	gtctctatcggaaggatgttcg	402526	-	see also 22851 line
51609	MGC13045	NM_032344.1	685	ctgtgtgacatgaactcttttc	399847	-	see also 22852 line
51610	MGC13045	NM_032344.1	686	tgtgtgacatgaactcttttc	399848	-	see also 22852 line
51611	MGC13057	NM_032321.1	529	gcctctcaggtatcttctgt	399707	-	see also 22854 line
51612	MGC13057	NM_032321.1	568	gggcattgcaataacataagtac	399712	-	see also 22854 line
51613	MGC13102	NM_032323.1	1121	tgccgtctccggctgact	399738	-	see also 22855 line
51614	MGC13102	NM_032323.1	581	gccccgaagagaccttatctg	399727	-	see also 22855 line

図46 (続き)

1364

51615	MGC13125	NM_032725.2	114	cgatcgcaagcctgcacaaagc	401260	-	see also 22856 line
51616	MGC13125	NM_032725.2	385	caagatacccccggattatctcc	401265	-	see also 22856 line
51617	MGC13159	NM_032927.2	583	atcgccgctttgggtacaaac	402510	-	see also 22857 line
51618	MGC13159	NM_032927.2	850	gtcaagatccagccttgatcc	402520	-	see also 22857 line
51619	MGC13159	NM_032927.2	685	tccattgttgacattatgt	402514	-	see also 22857 line
51620	MGC13183	NM_032358.2	1252	atgggagcgtttacagataat	399955	-	see also 22858 line
51621	MGC13183	NM_032358.2	1108	aagtcctaaagaataagttagt	399951	-	see also 22858 line
51622	MGC13198	NM_032690.1	477	gtttcaggcccgagcttttcc	401223	-	-
51623	MGC13198	NM_032690.1	721	gtcgcaagccctctcaatttgg	401224	-	see also 51622 line
51624	MGC13198	NM_032690.1	724	ggcagccctctcacatttggg	401225	-	see also 51622 line
51625	MGC13204	NM_031465.1	741	cccgaggacaagtatggaataa	397099	-	see also 22859 line
51626	MGC13204	NM_031465.1	373	gacactcaagtogaaaacctacc	397087	-	see also 22859 line
51627	MGC13251	NM_032714.1	713	cacctgtctagcgtgataacg	401249	-	see also 22860 line
51628	MGC13251	NM_032714.1	772	ccagctcgggaacaggtttatc	401250	-	see also 22860 line
51629	MGC14126	NM_032898.2	465	atgcagcttgaactttcaaa	402462	-	see also 22861 line
51630	MGC14126	NM_032898.2	487	ggcagcttgaactttcaaa	402463	-	see also 22861 line
51631	MGC14128	NM_032899.3	952	gacagctcaactaaagaacattc	402473	-	see also 9341 line
51632	MGC14128	NM_032899.3	694	aagccctactgaaggaaatac	402469	-	see also 9341 line
51633	MGC14128	NM_032899.3	1051	atctcttggactggagatttgg	402475	-	see also 9341 line
51634	MGC14156	NM_032906.2	263	aagaagccctcagatgaagc	402495	-	see also 9344 line
51635	MGC14161	NM_032892.1	1510	ggcggagcttccctccataacc	402450	-	see also 9338 line
51636	MGC14276	NM_153248.2	318	ggctctgttgatgagttcttca	422594	-	-
51637	MGC14288	NM_032901.2	222	ttggctataagacctctctacc	402491	-	see also 22865 line
51638	MGC14288	NM_032901.2	289	ccgagctctacactatttccagt	402493	-	see also 22865 line
51639	MGC14289	NM_080660.2	783	accttcagctagcaattcacag	406580	-	see also 22866 line
51640	MGC14289	NM_080660.2	487	cagaatgacctgtcttttacc	406574	-	see also 22866 line
51641	MGC14289	NM_080660.2	441	tggacttttggctctcaatgaaa	406573	-	see also 22866 line
51642	MGC14327	NM_053045.1	469	tccgctttctggtaactaacg	405848	-	-
51643	MGC14327	NM_053045.1	488	tacggctcctgagctcaagttcg	405849	-	see also 51642 line
51644	MGC14327	NM_053045.1	556	agctctgttccggcctcattacg	405850	-	see also 51642 line
51645	MGC14407	NM_032908.1	431	ggcatgcacagatgttatgaga	402501	-	see also 22867 line
51646	MGC14407	NM_032908.1	471	agccatcagactgggtcaatcag	402505	-	see also 22867 line
51647	MGC14595	NM_032334.1	645	cagggttagtgaaaaaacactga	399783	-	see also 22868 line
51648	MGC14595	NM_032334.1	499	ctggagttctctcatgtttatt	399781	-	see also 22868 line
51649	MGC14697	NM_032747.1	264	atggcaggtcgaagaagtgtgc	401316	-	see also 22869 line
51650	MGC14697	NM_032747.1	331	ctctcaaggtgaatgaactgt	401317	-	see also 22869 line
51651	MGC14799	NM_032336.1	628	aagcacatggccccataactaca	399796	-	see also 9166 line
51652	MGC14801	NM_032705.2	234	caccgatcccgacatagatcagt	401242	-	see also 22871 line
51653	MGC14801	NM_032705.2	266	ttctcaagatgacctatgttc	401243	-	see also 22871 line
51654	MGC14816	NM_144620.1	741	ttgatctgagatgaacatttt	410392	-	see also 22872 line
51655	MGC14816	NM_144620.1	874	tactgttatgctgcaacgaatg	410398	-	see also 22872 line
51656	MGC14817	NM_032338.2	157	aactagacggatgttttaagt	399804	-	see also 22873 line
51657	MGC14817	NM_032338.2	160	tagacgggtgattgttaatgaaa	399805	-	see also 22873 line
51658	MGC14839	NM_080659.1	213	tacgtatgaacgggtgttacagc	406569	-	-

図46 (続き)

1365

51659	MGC14839	NM_080659.1	270	gtcggagacagcaacttacatt	406570	-	see also 51658 line
51660	MGC14839	NM_080659.1	184	ctcccaaaaggccatgaacaac	406567	-	see also 51658 line
51661	MGC15396	NM_052855.2	420	agtgatgcttacctgttaaaa	404441	-	see also 22874 line
51662	MGC15396	NM_052855.2	371	gtcaacggctggactgttttaca	404438	-	see also 22874 line
51663	MGC15396	NM_052855.2	395	tgggcatgtaaacgaaccatg	404440	-	see also 22874 line
51664	MGC15397	NM_080652.2	624	atcggtttgaccataaatt	406522	-	see also 22875 line
51665	MGC15397	NM_080652.2	626	cagtttgatcccatataattca	406524	-	see also 22875 line
51666	MGC15407	NM_080667.2	478	ctgcaagcattggaataatca	406599	-	see also 22876 line
51667	MGC15407	NM_080667.2	371	ctctgcaaaagaccatacata	406595	-	see also 22876 line
51668	MGC15416	NM_032371.2	143	ggctcggcggagctcctgaatgc	400018	-	-
51669	MGC15419	NM_024735.2	564	cacgtcgatgaccctatgagatt	389745	-	see also 22877 line
51670	MGC15419	NM_024735.2	1095	gagaaccagcgcaactcaatga	389751	-	see also 22877 line
51671	MGC15476	NM_145056.1	1583	agttccacgcgctcaagaaaa	413336	-	-
51672	MGC15476	NM_145056.1	1289	tcccagctgctgcttttaag	413335	-	see also 51671 line
51673	MGC15476	NM_145056.1	1590	cacgcgctcaagaaaaagatt	413338	-	see also 51671 line
51674	MGC15606	NM_145037.1	1719	cagatttagtggagtttaacttg	413093	-	see also 22878 line
51675	MGC15606	NM_145037.1	2131	ctcaggggtggagtatatctcg	413105	-	see also 22878 line
51676	MGC15634	NM_032755.1	330	tccatgtctcaaaacattagtc	401319	-	-
51677	MGC15634	NM_032755.1	362	cccatgaggtttatctctttt	401320	-	see also 51676 line
51678	MGC15668	NM_032756.1	1022	gggctgtatagcgcctaactgt	401327	-	see also 22879 line
51679	MGC15668	NM_032756.1	388	cagcggcgacgcggctcttttgg	401321	-	see also 22879 line
51680	MGC15677	NM_032878.2	202	ttgcttgacaaggttttaatgc	402393	-	see also 22880 line
51681	MGC15677	NM_032878.2	147	accacgtgaatctactatgtcc	402392	-	see also 22880 line
51682	MGC15705	NM_032757.1	340	tgcttaatctctgtaaaaggaaa	401335	-	-
51683	MGC15705	NM_032757.1	336	tgcctgttaatctctgtanaag	401333	-	see also 51682 line
51684	MGC15705	NM_032757.1	326	ggcagcaggatgctgcttaatc	401332	-	see also 51682 line
51685	MGC15716	NM_032370.1	660	cacgcaccgctgctcttcaagc	400017	-	see also 22881 line
51686	MGC15716	NM_032370.1	614	aaccatagctacttaactagt	400016	-	see also 22881 line
51687	MGC15730	NM_032880.2	496	ctggagacgcgctgactttgaag	402396	-	see also 9331 line
51688	MGC15730	NM_032880.2	497	tggagacgcgctgactttgaagt	402397	-	see also 9331 line
51689	MGC15737	NM_032926.2	831	tacacgatatcccatccttaa	402509	-	-
51690	MGC15827	NM_032882.2	458	ctcgaccgggaagtaactatgc	402415	-	see also 22883 line
51691	MGC15827	NM_032882.2	514	cccgtagaacgtggtctttgtgc	402416	-	see also 22883 line
51692	MGC15882	NM_032884.1	961	ggcagacttcgaacaaagtgg	402422	-	see also 22884 line
51693	MGC15882	NM_032884.1	1233	aaccgacgctggagatgtactcc	402425	-	see also 22884 line
51694	MGC15887	NM_198552.1	343	gtccttctctgccaactatcac	439462	-	-
51695	MGC15912	NM_032886.1	541	tgcataagcattcgacttatga	402447	-	see also 22885 line
51696	MGC15912	NM_032886.1	442	aggtcaggtgggttatctctgc	402444	-	see also 22885 line
51697	MGC15937	NM_080661.2	356	cacaaacgtatatgtatgtct	406585	-	see also 22886 line
51698	MGC15937	NM_080661.2	878	acgagtgatgtcgatcatatga	406586	-	see also 22886 line
51699	MGC16028	NM_052873.1	250	atctgaacgcgatgctatcacaa	404567	-	see also 22887 line
51700	MGC16028	NM_052873.1	467	tgggagatgacgtgaactcc	404568	-	see also 22887 line
51701	MGC16044	NM_138371.1	1081	caccggagcagctaaacataact	407772	-	see also 22888 line
51702	MGC16044	NM_138371.1	763	cgcggtgactcgcgattactcc	407765	-	see also 22888 line

図46 (続き)

1366

51703	MGC16121	NM_032762.2	484	cccgagatcatcgaaattgagc	401341	-	see also 22890 line
51704	MGC16121	NM_032762.2	480	gtctccgagatcgatcgaaatt	401339	-	see also 22890 line
51705	MGC16121	NM_032762.2	482	ctcccgagatcgatcgaaattga	401340	-	see also 22890 line
51706	MGC16142	NM_032763.1	517	ttgtgtgttaagcagcaaaaca	401346	-	-
51707	MGC16142	NM_032763.1	471	atcccaaccacataatcatca	401343	-	see also 51706 line
51708	MGC16142	NM_032763.1	476	caccacataatcatcatgagg	401345	-	see also 51706 line
51709	MGC16202	NM_032373.2	878	ggcgaactaagaggcaaaacttt	400040	-	see also 9175 line
51710	MGC16202	NM_032373.2	879	ggcgaactaagaggcaaaactttc	400041	-	see also 9175 line
51711	MGC16291	NM_032770.2	404	gaatttggaggaggcctcatatg	401347	-	-
51712	MGC16309	NM_033413.2	410	ggccggaggaggattactatct	403817	-	see also 22892 line
51713	MGC16309	NM_033413.2	609	ctgagaacctgataagaacattg	403821	-	see also 22892 line
51714	MGC16353	NM_138774.2	662	ggcgtgtacacagcaatgctaga	408733	-	see also 22893 line
51715	MGC16353	NM_138774.2	390	tggaggtctggaaacgatttcag	408731	-	see also 22893 line
51716	MGC16372	NM_145038.1	198	cgcacgtcgtggcgcttagaagc	413106	-	see also 22894 line
51717	MGC16372	NM_145038.1	1099	atcgccctgcatgatacttaac	413126	-	see also 22894 line
51718	MGC16372	NM_145038.1	1732	atcgagctcaccggtttatctcc	413142	-	see also 22894 line
51719	MGC16491	NM_052943.2	786	cgtgtgagacgcagttgaattc	405462	-	see also 22895 line
51720	MGC16491	NM_052943.2	1362	tggcagccactgcaattactac	405464	-	see also 22895 line
51721	MGC16664	NM_173509.2	868	accaatccaggaggctattgac	425230	-	see also 10076 line
51722	MGC16664	NM_173509.2	857	gtgagccctcaccacatccaaag	425229	-	see also 10076 line
51723	MGC16733	NM_033547.2	404	tacgtctcattgtgttaagaata	404125	-	see also 22896 line
51724	MGC16733	NM_033547.2	432	ctgcagttacttggcaatttgg	404126	-	see also 22896 line
51725	MGC16824	NM_020314.3	755	atcccgacatacttggatacat	376438	-	see also 22897 line
51726	MGC16824	NM_020314.3	1373	atggccacaaaggtctatggatt	376452	-	see also 22897 line
51727	MGC16824	NM_020314.3	446	accgaataagctgtctattaatct	376431	-	see also 22897 line
51728	MGC17330	NM_052880.2	742	cagcatgatacagaagtgatga	404588	-	see also 22898 line
51729	MGC17330	NM_052880.2	461	tggcagccttcacgacagaatc	404587	-	see also 22898 line
51730	MGC17791	NM_152362.1	142	ggctctgcagcgcgagaagaagc	415809	-	-
51731	MGC17839	NM_174926.1	506	accatggagtcctctctatagg	428704	-	see also 22899 line
51732	MGC17839	NM_174926.1	737	cacaacggacatctcaaaatara	428707	-	see also 22899 line
51733	MGC17943	NM_152261.1	239	aagaaatccatcatacttaatt	415203	-	see also 22900 line
51734	MGC17943	NM_152261.1	244	atcccatcataccttaattatga	415204	-	see also 22900 line
51735	MGC18079	NM_144675.1	551	agcggaggagacttcaacttga	411271	-	see also 22901 line
51736	MGC18079	NM_144675.1	424	caccaagacggctcattgattcc	411268	-	see also 22901 line
51737	MGC18216	NM_152452.1	2325	cacagccaatggtttttcattg	416937	-	see also 22902 line
51738	MGC18216	NM_152452.1	2269	tggcttgctgcgcgtcattgca	416937	-	see also 22902 line
51739	MGC19595	NM_033415.2	1312	ggcagcgtgaagagatgctattgt	403826	-	see also 22903 line
51740	MGC19595	NM_033415.2	850	cacgttcctctgaacataaaca	403823	-	see also 22903 line
51741	MGC19604	NM_080665.2	484	agctggaggaggcggaattcacc	406592	-	-
51742	MGC19780	NM_144988.1	561	atctgcctgtgaaacagcttacc	412458	-	see also 22904 line
51743	MGC19780	NM_144988.1	566	cgtgtgaaacagcttaccatgt	412459	-	see also 22904 line
51744	MGC20255	NM_052848.1	378	gacttgacagagcattgaaagt	404408	-	see also 22905 line
51745	MGC20262	NM_152421.2	490	gcggagctgctactgtttgaca	416540	-	see also 22906 line
51746	MGC20262	NM_152421.2	271	ctgccaggtgagcattgtgacc	416539	-	see also 22906 line

1367

図46 (続き)

51747	MGC20398	NM_052857.1	921	gtgtaccgacgggtgaaagc	404470	-	see also 9437 line
51748	MGC20398	NM_052857.1	79	accagtcgaaacaggatgaatc	404454	-	see also 9437 line
51749	MGC20398	NM_052857.1	713	aagcgttaacggagagtttttt	404465	-	see also 9437 line
51750	MGC20400	NM_053043.1	3402	aggccgtacacagctgatagaa	405832	-	see also 22908 line
51751	MGC20400	NM_053043.1	3302	ggctccggcataatacaactct	405830	-	see also 22908 line
51752	MGC20470	NM_145053.2	1064	atctagacacgcaacaattgatg	413239	-	see also 22909 line
51753	MGC20470	NM_145053.2	133	gccaacgctcgtgctactact	413221	-	see also 22909 line
51754	MGC20481	NM_052849.2	322	aggatctcgtgctgaattgt	404411	-	see also 9435 line
51755	MGC20486	NM_052844.2	1128	gcggcttcgcctcaagtgcttc	404406	-	see also 22911 line
51756	MGC20486	NM_052844.2	440	tggcagagcagcgcttgatgg	404404	-	see also 22911 line
51757	MGC20579	NM_182614.2	337	atcgtggagcggctatttcagc	434691	-	see also 22912 line
51758	MGC20579	NM_182614.2	334	gcacatgaggagcgctatttc	434690	-	see also 22912 line
51759	MGC20700	NM_174983.2	1441	ggcctcgtgagctttaccact	428891	-	see also 22913 line
51760	MGC20781	NM_052935.2	472	accactattacaattgagatc	405403	-	see also 22914 line
51761	MGC20781	NM_052935.2	765	gtgttaactacatggattttaa	405408	-	see also 22914 line
51762	MGC20781	NM_052935.2	412	ttctggataatagcaagatcatc	405401	-	see also 22914 line
51763	MGC20806	NM_144999.2	772	gaactgcgctggaataaogttgg	412541	-	see also 22915 line
51764	MGC20806	NM_144999.2	1290	agctgcagagcgggagctaaac	412544	-	see also 22915 line
51765	MGC20806	NM_144999.2	500	tgtcgcgtcttgacttaag	412539	-	see also 22915 line
51766	MGC21416	NM_173834.2	154	ctcgcacgggaggttgacagc	428457	-	see also 22916 line
51767	MGC21416	NM_173834.2	85	caggcttcagatatcatc	428454	-	see also 22916 line
51768	MGC21518	NM_145274.1	762	ctcagccggttgcaattgtga	414086	-	see also 22917 line
51769	MGC21518	NM_145274.1	598	ctcgtggttctctcaacaact	414085	-	see also 22917 line
51770	MGC21518	NM_145274.1	370	tgacgctcattcttgatgttc	414080	-	see also 22917 line
51771	MGC21636	NM_145032.2	1584	caccgatatctcagattgtact	412931	-	see also 22918 line
51772	MGC21636	NM_145032.2	1932	agcgtgccttaatttaaacac	412953	-	see also 22918 line
51773	MGC21644	NM_138492.3	583	tgcccttaactgggacacagtagc	408428	-	see also 22919 line
51774	MGC21644	NM_138492.3	621	gtctgtctccgggaaagtagg	408429	-	see also 22919 line
51775	MGC21644	NM_138492.3	542	ggctcaactcctcgggaaagaaac	408427	-	see also 22919 line
51776	MGC21654	NM_145647.1	157	caacgggagcgggaattatagta	414484	-	see also 9790 line
51777	MGC21654	NM_145647.1	1426	tgcttttagtaccctcatagata	414538	-	see also 9790 line
51778	MGC21654	NM_145647.1	155	ggcagcgggacgggaattatagt	414483	-	see also 9790 line
51779	MGC21658	NM_198451.1	1031	ctggaagagcaccattcattaca	437867	-	see also 22921 line
51780	MGC21658	NM_198451.1	541	ctcctgtggaaccacactgtgg	437863	-	see also 22921 line
51781	MGC21675	NM_052861.1	651	cgtgtgggacacaccttagttgg	404479	-	see also 22922 line
51782	MGC21675	NM_052861.1	662	acctagtattgggggaaactca	404480	-	see also 22922 line
51783	MGC21688	NM_144635.3	2173	ccaggaactcaactataactcg	410613	-	-
51784	MGC21688	NM_144635.3	1848	tccactgatcactctatagta	410612	-	-
51785	MGC21830	NM_182563.2	775	cggagacacggcgtgatttatot	434402	-	see also 51783 line
51786	MGC21830	NM_182563.2	779	gacagcggcgtgatttatctcgc	434464	-	see also 22923 line
51787	MGC21854	NM_052862.2	594	agcttcagggcacaatttaacctt	404485	-	see also 22924 line
51788	MGC21854	NM_052862.2	807	tgcggacagggcgctcaataaaa	404488	-	see also 22924 line
51789	MGC22001	NM_153238.1	305	ctcgtcgtcctcaacaaatgc	422465	-	-
51790	MGC22001	NM_153238.1	303	tctcgtcgtcctcaacaaat	422464	-	see also 51789 line

図46 (続き)

1368

51791	MGC2217	NM_024300.2	323	gcggagattctggaattctatc	386211	-	see also 22925 line
51792	MGC22773	NM_145258.1	677	agcatgaaccatgcactttct	413961	-	see also 22926 line
51793	MGC22773	NM_145258.1	463	tcatgacaatgggttgcaag	413955	-	see also 22926 line
51794	MGC22773	NM_145258.1	680	atgtaaccatgaactttctta	413962	-	see also 22926 line
51795	MGC22776	NM_144962.1	334	gcctggaagcgcgaaccttat	411944	-	see also 22927 line
51796	MGC22776	NM_144962.1	594	aactcaggctctggaatagg	411947	-	see also 22927 line
51797	MGC22793	NM_145030.1	775	gcctcctcgcgactcaactcc	412895	-	-
51798	MGC22793	NM_145030.1	604	gcggaggaacaggttctgaatg	412892	-	see also 51797 line
51799	MGC22793	NM_145030.1	727	cccagaaacgtattttgaat	412894	-	see also 51797 line
51800	MGC22805	NM_144590.1	557	tggctgtaccgcattacattatg	410081	-	see also 22928 line
51801	MGC22805	NM_144590.1	669	ctgatatgtcacgagagattaaa	410083	-	see also 22928 line
51802	MGC22960	NM_199044.2	174	cgcgagacacatgatataagaag	440591	-	see also 22929 line
51803	MGC22960	NM_199044.2	231	tctgactggcttgcagaatttt	440592	-	see also 22929 line
51804	MGC23244	NM_144615.1	199	ctgggaacagctcctgttaagt	410337	-	see also 22930 line
51805	MGC23244	NM_144615.1	240	tctgtgtcaaccgtacatcacc	410339	-	see also 22931 line
51806	MGC23401	NM_144982.3	3109	gacgtgagcagatccttagataa	412303	-	see also 22931 line
51807	MGC23401	NM_144982.3	1725	gcgagaagcacagggaaacttagg	411679	-	see also 22932 line
51808	MGC23918	NM_144716.1	168	tgtgtgatcatcactgaattgg	413210	-	see also 22933 line
51809	MGC23937	NM_145052.1	723	gtctgtccatcgaattggaaag	413211	-	see also 22933 line
51810	MGC23937	NM_145052.1	727	gcgagctcgtggcgtgggaaga	412130	-	see also 9754 line
51811	MGC24039	NM_144973.2	2669	cccaacttgcggacatctatata	412107	-	see also 9754 line
51812	MGC24039	NM_144973.2	1888	cccaacggctcaactgacttttg	432010	-	-
51813	MGC24047	NM_178840.2	182	cacggctcaactgacttttgta	432012	-	see also 51813 line
51814	MGC24047	NM_178840.2	185	ccaaagctcaactgacttttgt	432011	-	see also 51813 line
51815	MGC24047	NM_178840.2	183	ttgcaaaactaagatgtatgtgt	418166	-	see also 22935 line
51816	MGC24103	NM_152576.1	471	cccaattgtctatgctcaaatga	428530	-	see also 22936 line
51817	MGC24133	NM_174896.2	492	ccagagggaatacaacttaactatg	428528	-	see also 22936 line
51818	MGC24133	NM_174896.2	399	tgtctggtatcacgtgactttgg	415782	-	see also 22937 line
51819	MGC24180	NM_152352.1	985	gccacccgtcaaggagatcttgc	415785	-	see also 22937 line
51820	MGC24180	NM_152352.1	1063	ttcaacagtgtggcctttcaaaa	401163	-	-
51821	MGC2452	NM_032644.1	2531	aaatgacagaccttctgataa	415447	-	see also 51821 line
51822	MGC2452	NM_032644.1	2482	gggaactggagtagaagattta	415448	-	see also 22938 line
51823	MGC24665	NM_152308.1	379	ggctcccggtgtttagaagtg	386025	-	see also 22939 line
51824	MGC2477	NM_024099.1	2812	cacgcgcacacctcaagaagc	386026	-	see also 22939 line
51826	MGC2477	NM_024099.1	2977	ttcgatatggaggctttcaactga	385602	-	see also 22940 line
51827	MGC2491	NM_024040.1	235	gcccgaatgtctcaagaagaga	385603	-	see also 22940 line
51828	MGC2491	NM_024040.1	429	gaccgagtagggttatgatgt	385431	-	-
51829	MGC2494	NM_023933.1	691	caccgtgtccacgtgactact	423049	-	see also 22941 line
51830	MGC24975	NM_153359.1	1394	gggccaagtccacctgtataagc	423047	-	see also 22941 line
51831	MGC24975	NM_153359.1	620	gaccgaatcgtctatgtatgt	410185	-	see also 9711 line
51832	MGC24976	NM_144598.2	648	ctcactgtgacccgaatctgt	410184	-	see also 9711 line
51833	MGC24976	NM_144598.2	639	cagcctgacgatatgttgaagc	374501	-	see also 22943 line
51834	MGC25062	NM_019020.2	2219				

図46 (続き)

1369

51835	MGC25062	NM_019020.2	1099	gagagagccagtcacaaggttttc	374492	-	see also 22943 line
51836	MGC2508	NM_024327.1	218	ccggaacccctgaagagacatga	386295	-	see also 22944 line
51837	MGC2562	NM_032374.2	171	tgtataggaccocccagataaata	400049	-	see also 9176 line
51838	MGC2562	NM_032374.2	202	tgcacctgtcaacttttacaata	400052	-	see also 9176 line
51839	MGC2574	NM_024098.1	798	acogctccaagaaagattctcc	386021	-	see also 22946 line
51840	MGC2574	NM_024098.1	689	aagaaecgaaaaggtttctc	386016	-	see also 22946 line
51841	MGC2574	NM_024098.1	460	ctcggagttggccagataagg	386015	-	see also 22946 line
51842	MGC2594	NM_024050.2	141	aagcaattttagtcgattcaccg	385624	-	-
51843	MGC2594	NM_024050.2	278	tgcatacgaatggacaaaaag	385625	-	see also 51842 line
51844	MGC2601	NM_024042.2	669	caccagcgacttcgtaattcacg	385621	-	see also 22947 line
51845	MGC2601	NM_024042.2	667	tgcacagcgacttcgtaattca	385620	-	see also 22947 line
51846	MGC2603	NM_024037.1	324	agccttagcacacgattgcattgg	385555	-	see also 22948 line
51847	MGC2603	NM_024037.1	792	aagccgtagtcagttctgtgt	385565	-	see also 22948 line
51848	MGC2641	NM_032631.2	265	ctgttccctcaccgcaaatgttaa	401149	-	see also 22949 line
51849	MGC2641	NM_032631.2	268	ttcccctcagcaaatgtaaga	401150	-	see also 22949 line
51850	MGC2647	NM_178841.2	685	tgtctcaccgacacaagtctcc	432015	-	-
51851	MGC2650	NM_024108.1	12	ggcggatactgtgttttgt	386048	-	see also 22950 line
51852	MGC2650	NM_024108.1	324	gacctagctcctgcaagacaaca	386050	-	see also 22950 line
51853	MGC2654	NM_024109.1	746	ggcggacagcatcatcagaata	386058	-	see also 22951 line
51854	MGC2654	NM_024109.1	751	cacgatatcatcagaatagtgt	386061	-	see also 22951 line
51855	MGC2655	NM_024339.2	847	gacgatacgaagctctataagcag	386325	-	see also 22952 line
51856	MGC2655	NM_024339.2	465	ggccctgtctagcatctgtttcc	386321	-	see also 22952 line
51857	MGC2655	NM_024339.2	289	ggccttgcagcggtccataga	386316	-	see also 22952 line
51858	MGC2656	NM_024509.1	2099	ctcgttactgtctctctctcc	386476	-	see also 22953 line
51859	MGC2656	NM_024509.1	1453	ggcggctgctaggaactcaagc	386474	-	see also 22953 line
51860	MGC2656	NM_152402.1	391	aagtcctctattatttgtgt	416290	-	see also 22954 line
51861	MGC2656	NM_152402.1	1111	tacgtaacatggaaacttaattac	416306	-	see also 22954 line
51862	MGC2658	NM_152638.2	946	ggcggctcaagctgtatgtgtg	419414	-	see also 22955 line
51863	MGC2658	NM_152638.2	561	ccgggtgctccagcgtacaatag	419410	-	see also 22955 line
51864	MGC26647	NM_152706.2	185	gtccttttgggtccataaccaga	419921	-	see also 22956 line
51865	MGC26647	NM_152706.2	250	tccaaagccacgtagcaattac	419923	-	see also 22956 line
51866	MGC26690	NM_152450.1	1168	tgggtttacagccgctctatgaa	416913	-	see also 22957 line
51867	MGC26690	NM_152450.1	447	ctgcatagtgaagcaacttaat	416897	-	see also 22957 line
51868	MGC26710	NM_152510.1	610	tactatgaactccactactata	417336	-	see also 22958 line
51869	MGC26710	NM_152510.1	739	ctccactggctttcatagcatga	417342	-	see also 22958 line
51870	MGC26710	NM_152510.1	653	taccacccctcoggttttaaga	417340	-	see also 22958 line
51871	MGC26733	NM_144992.2	2092	cctcggagtgcaacttataaga	412500	-	see also 22959 line
51872	MGC26733	NM_144992.2	2089	tgcctcctggagtgcaactatta	412497	-	see also 22959 line
51873	MGC26744	NM_144645.1	337	ggcaggttgttataatgtacagg	410712	-	see also 22960 line
51874	MGC26744	NM_144645.1	463	cacaaaatgtaccaccattaaag	410713	-	see also 22960 line
51875	MGC26778	NM_145010.2	797	tccagtcctctcgtctttata	412609	-	see also 22961 line
51876	MGC26778	NM_145010.2	807	ctcgtctttatagattctatac	412614	-	see also 22961 line
51877	MGC26816	NM_152613.1	271	gacgaactcactgtgacaac	418834	-	see also 22962 line
51878	MGC26816	NM_152613.1	440	ggccggaggatttcactagaac	418837	-	see also 22962 line

1370

図46 (続き)

51879	MGC26816	NM_152613.1	197	taccggggtgatttcataacttc	418831	-	see also 22962 line
51880	MGC26818	NM_152371.1	357	atgagagcaagcagcttacaag	415906	-	see also 22963 line
51881	MGC26818	NM_152371.1	384	taggtcttaagcgggtacaacagc	415907	-	see also 22963 line
51882	MGC26847	NM_145006.2	526	ggcctaagcacttaacaaccc	412586	-	see also 22964 line
51883	MGC26885	NM_152339.2	1087	taccagcctcagccttaggtct	415719	-	see also 22965 line
51884	MGC26963	NM_152621.3	1440	caagaacaactacactatcgatgt	419029	-	see also 22966 line
51885	MGC26963	NM_152621.3	798	taccggagcatatccaaattgc	419009	-	see also 22966 line
51886	MGC26988	NM_130899.1	1510	cgtccgcgcatctggccataaaa	407125	-	see also 22967 line
51887	MGC26988	NM_130899.1	237	tgacccaattgttgagagtaatt	407103	-	see also 22967 line
51888	MGC26989	NM_152763.2	566	gagcgttctaagtcgaagcatttc	420834	-	see also 22968 line
51889	MGC26989	NM_152763.2	277	ttcagaacacacgaactataagc	420824	-	see also 22968 line
51890	MGC26999	NM_152630.2	612	atcatgaagagcgcttagtaca	419183	-	see also 22969 line
51891	MGC26999	NM_152630.2	623	cgtctacgtacagaaattgtca	419185	-	see also 22969 line
51892	MGC27034	NM_152292.2	951	atcacaaggagcactcacatataa	415423	-	see also 22970 line
51893	MGC27034	NM_152292.2	876	cagattcaactaatatactgaag	415419	-	see also 22970 line
51894	MGC27044	NM_144977.1	823	atgaagcgcgcacgtgattatc	412184	-	see also 9761 line
51895	MGC27044	NM_144977.1	837	gtgattatctcgagcaaataaag	412186	-	see also 9761 line
51896	MGC2705	NM_032701.2	575	gtgtccactcgtgttggaataa	401234	-	see also 22972 line
51897	MGC2705	NM_032701.2	758	tgaacaaccaactgcgaagtgtt	401235	-	see also 22972 line
51898	MGC27085	NM_153353.2	648	tccatgaggcggcgtatgaaa	422953	-	see also 22973 line
51899	MGC27085	NM_153353.2	573	tgtctgcaatctgcgaattaat	422950	-	see also 22973 line
51900	MGC2714	NM_032299.2	651	tgcgtcacagtgaatgatatt	399522	-	see also 9150 line
51901	MGC2714	NM_032299.2	371	ccccctgctagactaataagtg	399515	-	see also 9150 line
51902	MGC27169	NM_176782.1	1173	acgtccaggcagcgggtataaaca	429602	-	see also 22975 line
51903	MGC27169	NM_176782.1	986	ctctacgtcgggataacactgc	429597	-	see also 22975 line
51904	MGC27169	NM_176782.1	1175	gtccaggcagcgggtataaaca	429603	-	see also 22975 line
51905	MGC2731	NM_024068.2	345	accaaaagggtacgttcagtttt	385733	-	see also 22976 line
51906	MGC2731	NM_024068.2	350	aggtaacgttcagttttcaaaag	385735	-	see also 22976 line
51907	MGC27434	NM_145050.1	413	aggcattgctggaataaactaac	413200	-	see also 22977 line
51908	MGC27434	NM_145050.1	412	gagcattgctggaataaactaaa	413199	-	see also 22977 line
51909	MGC2747	NM_024104.2	98	ttcctcatctcgtgacttca	386041	-	see also 22978 line
51910	MGC2747	NM_024104.2	190	tgcgcgaggtggtcatgtttcc	386043	-	see also 22978 line
51911	MGC2749	NM_024069.2	340	caagagagccctagtagagatga	385740	-	see also 22979 line
51912	MGC2749	NM_024069.2	344	aggacccctagtagatgaacag	385742	-	see also 22979 line
51913	MGC2803	NM_024038.2	551	tgcggtagcgtatgataaactcg	385586	-	see also 8567 line
51914	MGC2803	NM_024038.2	548	cagtgccgtgacgtatgataaac	385585	-	see also 8567 line
51915	MGC2848	NM_032917.1	141	accggaacaactcgaagatga	402506	-	-
51916	MGC2865	NM_032375.2	1117	gagcccgaggtacagatgatgg	400061	-	see also 22981 line
51917	MGC2865	NM_032375.2	1031	agcagctggcagcttagtataat	400059	-	see also 22981 line
51918	MGC29649	NM_173810.3	637	tacgaacgggtgagagaatag	428210	-	see also 22982 line
51919	MGC29649	NM_173810.3	772	gtgaataggcagcctaagatgc	428215	-	see also 22982 line
51920	MGC29671	NM_182538.2	504	ggccttgatcctcttactctgc	434233	-	-
51921	MGC29671	NM_182538.2	772	aaccccgacagcctgttttgg	434234	-	see also 51920 line
51922	MGC29671	NM_182538.2	1065	gacggcagaggcacttcagatca	434235	-	see also 51920 line

図46 (続き)

1371

51923	MGC29761	NM_144654.1	404	ttccggaacaatactctcaatgt	410873	-	see also 22983 line
51924	MGC29761	NM_144654.1	407	cggaaacaatactctcaatgttta	410875	-	see also 22983 line
51925	MGC29762	NM_144706.2	608	cagcagactcagttatttcaaaac	411515	-	see also 22984 line
51926	MGC29762	NM_144706.2	601	tgggaaccagcagctcagttatt	411512	-	see also 22984 line
51927	MGC29784	NM_173659.1	437	agctagtcgcctcagaagtact	427135	-	see also 22985 line
51928	MGC29784	NM_173659.1	1021	gcctggggctccgcttacaatag	427139	-	see also 22985 line
51929	MGC29784	NM_173659.1	251	acctctagtcagcttgaacaagc	427133	-	see also 22985 line
51930	MGC29875	NM_014388.2	1605	tgcggatgtgagcctcaataat	340507	-	see also 5646 line
51931	MGC29875	NM_014388.2	1925	gactctgcgtctctgaaatta	340514	-	see also 5646 line
51932	MGC29875	NM_014388.2	2128	gcgacaatccacacatttaca	340526	-	see also 5646 line
51933	MGC29891	NM_144618.1	679	tcagatgtctgtagagttactta	410347	-	see also 9716 line
51934	MGC29891	NM_144618.1	686	gtcgtaggttacttacaata	410350	-	see also 9716 line
51935	MGC29898	NM_145048.2	741	tacaagcggagccttagcatca	413189	-	see also 22989 line
51936	MGC29898	NM_145048.2	697	gtcgttggctctctctataa	413187	-	see also 22989 line
51937	MGC29898	NM_145048.2	711	ttcttaaacgacctatgaagc	413188	-	see also 22989 line
51938	MGC29937	NM_144597.1	368	tggtaaatctctgtaaaaggtag	410168	-	see also 22990 line
51939	MGC29937	NM_144597.1	163	tggcagttgactcaaaagtagc	410164	-	see also 22990 line
51940	MGC29956	NM_144638.1	233	ttgtgtagcggagcacaattct	410617	-	see also 22991 line
51941	MGC29956	NM_144638.1	113	ggcgccttttggggcgtattcaac	410614	-	see also 22991 line
51942	MGC3020	NM_024048.2	737	accatgtccacacatcattct	385623	-	-
51943	MGC3035	NM_024293.2	738	gggattatgtctctacattgt	386149	-	see also 22992 line
51944	MGC3035	NM_024293.2	782	ggccctgggtgtttatcatgagc	386152	-	see also 22992 line
51945	MGC3035	NM_023942.1	675	atcgacgggtgagcgtgtgattgg	385458	-	-
51946	MGC3047	NM_032348.2	1239	aggacatccagctagattacaac	399864	-	see also 9169 line
51947	MGC3048	NM_024052.3	881	tgtatcagtcctcctaataaac	385650	-	see also 8579 line
51948	MGC3048	NM_024052.3	627	aagatgttgatcgggaacactgg	385642	-	see also 8579 line
51949	MGC3067	NM_024295.3	215	ggcgatcacgcgctatttggctcg	386175	-	see also 8605 line
51950	MGC3067	NM_024295.3	675	atcgagagctcggtaataatga	386195	-	see also 8605 line
51951	MGC3103	NM_024036.3	1237	cccaacgggaccccttagagattgg	385547	-	see also 22996 line
51952	MGC3103	NM_024036.3	866	tggctccggagaccgctttctct	385544	-	see also 22996 line
51953	MGC3103	NM_024036.3	1236	cccaacgggacaccttagagattg	385546	-	see also 22996 line
51954	MGC3113	NM_024035.1	274	cgggtctcctctcttccaaaac	385539	-	-
51955	MGC3121	NM_024031.2	1652	ctgacaacaatcaggttgaacaag	385502	-	see also 22997 line
51956	MGC3121	NM_024031.2	1615	ggccgctcctcagctaaaccttac	385501	-	see also 22997 line
51957	MGC3121	NM_024031.2	1193	ggcgaaactaaggaccacataacc	385497	-	see also 22997 line
51958	MGC3123	NM_024107.1	297	agctcctggcgctattgttga	386044	-	-
51959	MGC3123	NM_024107.1	377	ggcaaccccgagccaaactgaact	386045	-	see also 51958 line
51960	MGC3130	NM_024032.2	835	tcccaaaagcgggtatgatgtcc	385516	-	see also 22998 line
51961	MGC3130	NM_024032.2	1170	aggactagctctgagattttcc	385523	-	see also 22998 line
51962	MGC3162	NM_024078.1	1458	ctcacggcctacgagattttga	385760	-	see also 22999 line
51963	MGC3162	NM_024078.1	962	ggccttgtaacgggctgttoatct	385766	-	see also 22999 line
51964	MGC3162	NM_024078.1	1049	ctctgtcttcacgtcaagatcc	385759	-	see also 22999 line
51965	MGC3169	NM_024074.1	157	cccgccttcgacactcagttact	385743	-	see also 23000 line
51966	MGC3169	NM_024074.1	518	caagggtggtctgctatgttcg	385749	-	see also 23000 line

1372

図46 (続き)

51967	MGC31963	NM_144580.1	773	cactccatgacgatgaatatgc	409333	-	see also 23001 line
51968	MGC31963	NM_144580.1	771	agcaactccatcgacgatgaatat	409332	-	see also 23001 line
51969	MGC31963	NM_144580.1	776	tccatgacgatgaatatgcacc	409334	-	see also 23001 line
51970	MGC31967	NM_174923.1	294	cgccggttttgctgtacaagt	428691	-	see also 23002 line
51971	MGC31967	NM_174923.1	296	cggcttttgctgtacaagtgt	428692	-	see also 23002 line
51972	MGC3200	NM_032305.1	367	tggagcgattatcagacaaatat	399606	-	see also 9151 line
51973	MGC3200	NM_032305.1	366	gtggagcggttatcagacaaata	399605	-	see also 9151 line
51974	MGC32020	NM_152266.1	314	agggcttgctgggttagaatttc	415213	-	see also 23004 line
51975	MGC32020	NM_152266.1	321	tgcggatttagaattccaatat	415216	-	see also 23004 line
51976	MGC32124	NM_144611.2	1258	ggccaccgctagccatcacatgc	410297	-	see also 23005 line
51977	MGC32124	NM_144611.2	854	ttggctttcatttatgagaaga	410296	-	see also 23005 line
51978	MGC3222	NM_024334.1	801	atcattcgccgtggagacttttt	386310	-	see also 8612 line
51979	MGC3222	NM_024334.1	176	taccggagagacatgtcaaatg	386298	-	see also 8612 line
51980	MGC3232	NM_032313.2	1695	tgcctataggccgatgatattcc	399686	-	see also 23007 line
51981	MGC3232	NM_032313.2	219	gggacggagcttctctatgacc	399670	-	see also 23007 line
51982	MGC3248	NM_032486.2	148	agccagaacatcgtctcaatgg	400374	-	see also 9218 line
51983	MGC3262	NM_024029.3	161	ttcgaggaggccaatatcttct	385488	-	see also 23009 line
51984	MGC3262	NM_024029.3	404	caggctctggaccggatcaaaagg	385490	-	see also 23009 line
51985	MGC3265	NM_024028.2	623	caagcagcgcttattgatgatg	385481	-	see also 23010 line
51986	MGC3265	NM_024028.2	621	gtcacgcagcgcttattgatga	385480	-	see also 23010 line
51987	MGC3265	NM_024028.2	618	ggcgtaacgcagcgcttattga	385479	-	see also 23010 line
51988	MGC32871	NM_152311.1	314	atcaactacggacttttctgtgg	415496	-	see also 23011 line
51989	MGC32871	NM_152311.1	564	ggctcgggtgcacatcctgtttt	415504	-	see also 23011 line
51990	MGC32871	NM_152311.1	424	aactcgcattcgggtgactatcc	415499	-	see also 23011 line
51991	MGC33190	NM_152749.2	300	agcacatgcagcctctatctcg	420521	-	see also 9946 line
51992	MGC33212	NM_152773.2	513	ttctgcgtgtagcagcatttgg	420988	-	see also 23013 line
51993	MGC33212	NM_152773.2	393	atgggtggtgcaagtgtgtattgg	420985	-	see also 23013 line
51994	MGC33214	NM_153354.2	464	tgtcacagtgtgtatctagtaa	422982	-	see also 9990 line
51995	MGC33214	NM_153354.2	1063	ctctgcgactctgtttaataatc	423004	-	see also 9990 line
51996	MGC33214	NM_153354.2	1061	tactctgcgactctgtgttaataa	423003	-	see also 9990 line
51997	MGC3329	NM_024086.2	742	ctccgctagtctgtgttaataa	385824	-	see also 8587 line
51998	MGC3329	NM_024086.2	1150	ttgtcacgacatggattgaaaaa	385839	-	see also 8587 line
51999	MGC33329	NM_152782.2	1092	gggagaccgccgaagtatacttgt	421150	-	see also 23016 line
52000	MGC33329	NM_152782.2	376	cagcaactgtgtatcctaaagagc	421128	-	see also 23016 line
52001	MGC33338	NM_152366.2	325	cagcagcgatcagggtgttttg	415825	-	see also 23017 line
52002	MGC33338	NM_152366.2	328	cagcgatcacggtgttttggacc	415826	-	see also 23017 line
52003	MGC33365	NM_173552.2	1320	gtgccactgtggaccacaattac	425982	-	see also 23018 line
52004	MGC33365	NM_173552.2	1524	aactagacaattaaagtaaacac	425986	-	see also 23018 line
52005	MGC33367	NM_144602.2	595	ggcttacgacgcgaagtaaaaga	410240	-	see also 23019 line
52006	MGC33367	NM_144602.2	487	ccattccgtgacacaaagcattg	410232	-	see also 23019 line
52007	MGC33370	NM_173807.2	353	gtgtactatagagttgatacat	428087	-	see also 23020 line
52008	MGC33370	NM_173807.2	920	atcgccggatggaatcgttttc	428099	-	see also 23020 line
52009	MGC33371	NM_144684.2	345	gtgtaccagcggttatcctttcg	411135	-	see also 23021 line
52010	MGC33371	NM_144684.2	705	tactttatgtacaaaagagttt	411142	-	see also 23021 line

1373

図46 (続き)

52011	MGC33382	NM_173529.3	215	ttctgatgctcgtttcactata	425524	-	see also 23022 line
52012	MGC33382	NM_173529.3	186	tgcaacctgagtggtgtaattc	425522	-	see also 23022 line
52013	MGC33382	NM_173529.3	668	tcctgtatagctcgaataataa	425542	-	see also 23022 line
52014	MGC33424	NM_153705.2	611	tacacgattctcaataaactgt	423731	-	see also 23023 line
52015	MGC33424	NM_153705.2	881	atcgagggtgttaaaatgatct	423744	-	see also 23023 line
52016	MGC33510	NM_152765.2	141	cagtgacgagacatagaagttt	420878	-	see also 9951 line
52017	MGC33510	NM_152765.2	136	agctgacgtgacgagacataga	420875	-	see also 9951 line
52018	MGC33530	NM_182546.1	977	gtcgtataggtgacacagattta	434323	-	see also 23024 line
52019	MGC33530	NM_182546.1	964	cacagaaaggtcagtcgtataga	434321	-	see also 23024 line
52020	MGC33530	NM_182546.1	392	gggaacggaggggcagaatgtgg	434314	-	see also 23024 line
52021	MGC33547	NM_144661.2	190	aacacagcgtataaagaacacgc	411111	-	see also 23025 line
52022	MGC33547	NM_144661.2	324	tcctggaatgcaaatatgttaaag	411114	-	see also 23025 line
52023	MGC33600	NM_182539.1	671	gcgcctctgcggaaatcagtcg	434238	-	see also 23026 line
52024	MGC33600	NM_182539.1	1011	aaggcacgcatcataatcgaag	434242	-	see also 23026 line
52025	MGC33602	NM_152391.2	415	tcctacatcgtctgtattggtgt	416197	-	see also 23027 line
52026	MGC33602	NM_152391.2	288	ttctgcgtaccaggtgtactat	416194	-	see also 23027 line
52027	MGC33607	NM_152775.1	360	gtgtttggcacgagcagtgaaaa	421009	-	see also 23028 line
52028	MGC33607	NM_152775.1	368	cacgcacattgaaaaggatttgc	421011	-	see also 23028 line
52029	MGC33630	NM_144668.2	2367	ttcgcctcctgcgaatcgaatt	411205	-	see also 23029 line
52030	MGC33630	NM_144668.2	1669	caaggctactaccacaattgata	411187	-	see also 23029 line
52031	MGC33648	NM_153706.2	815	ggcgacgtgtatctatgtatcc	423765	-	see also 23030 line
52032	MGC33648	NM_153706.2	814	agcgcgacgtctctatctatctc	423764	-	see also 23030 line
52033	MGC33653	NM_153346.2	2198	gtcgtctgtagacattcttccaga	422917	-	see also 23031 line
52034	MGC33653	NM_153346.2	2194	ggcgtcggctagtagaccttatt	422915	-	see also 23031 line
52035	MGC33835	NM_182548.2	738	tgcaaacagccacacgtctataa	434334	-	see also 23032 line
52036	MGC33835	NM_182548.2	643	tcacctctagagccttcaagact	434333	-	see also 23032 line
52037	MGC33864	NM_152522.2	627	ggcgtatagcagcgatttga	417559	-	-
52038	MGC33864	NM_152522.2	652	ggcactcgtagctgtcttactgt	417560	-	-
52039	MGC33887	NM_145036.1	1058	caggagaagacgcacctattaca	413046	-	see also 52037 line
52040	MGC33887	NM_145036.1	1344	aacatgagattgtcgtaataaa	413052	-	see also 9767 line
52041	MGC33889	NM_173699.1	697	caggcaactactgtccttttca	427725	-	see also 23034 line
52042	MGC33889	NM_173699.1	605	aaggataagtgctcacttcaatga	427722	-	see also 23034 line
52043	MGC33894	NM_152914.1	240	gtcggctcaacggatgtcatga	421687	-	see also 23035 line
52044	MGC33894	NM_152914.1	266	ggccgtctcgtctgtatgtacg	421689	-	see also 23035 line
52045	MGC33926	NM_152390.1	848	tgcatcgcttatcctgtttattag	416191	-	see also 23036 line
52046	MGC33926	NM_152390.1	435	agcgatgcacggccatcaagtac	416170	-	see also 23036 line
52047	MGC33947	NM_152358.1	581	atcggtgtcgtcgctgttgcata	415796	-	see also 23037 line
52048	MGC33947	NM_152358.1	585	tgctotggctgtatatacaga	415798	-	see also 23037 line
52049	MGC33951	NM_152448.1	148	accagacacgctgagaatatat	416861	-	see also 23038 line
52050	MGC33951	NM_152448.1	149	ccagacacgctgagaatatatc	416862	-	see also 23038 line
52051	MGC33951	NM_152448.1	536	aacagttatatcaaatgtatg	416874	-	see also 23038 line
52052	MGC33993	NM_152737.1	1080	ccctcgagcctcgtttctta	420294	-	see also 9937 line
52053	MGC33993	NM_152737.1	1078	gtcccttcgagcctcgtttctt	420293	-	see also 9937 line
52054	MGC34032	NM_152697.2	1557	tgggtgcatcgtactattact	419881	-	see also 23040 line

1374

図46 (続き)

52055	MGC34032	NM_152697.2	1308	atcgggggtaactgtatataaaag	419850	-	see also 23040 line
52056	MGC34032	NM_152697.2	1554	tgtgtgtgcttactgtacttatt	419859	-	see also 23040 line
52057	MGC34034	NM_153224.2	642	gcaagcaactcagcaactttg	422320	-	see also 23041 line
52058	MGC34034	NM_153224.2	450	aagggaatgacgctcaacttaa	422316	-	see also 23041 line
52059	MGC34132	NM_173654.1	1535	gagcgttcaactacacttgg	427129	-	see also 10104 line
52060	MGC34132	NM_173654.1	968	aactgacatcgtacatgag	427097	-	see also 10104 line
52061	MGC34290	NM_152315.1	1058	caactcgtcagtggtactactac	415536	-	see also 23043 line
52062	MGC34290	NM_152315.1	1347	caggggcacgtgttcaaaaagg	415545	-	see also 23043 line
52063	MGC34290	NM_152315.1	770	ccgggaatagagggtacttat	415525	-	see also 23043 line
52064	MGC34647	NM_152456.1	527	gagccacttcaactacatgaac	416960	-	see also 23044 line
52065	MGC34647	NM_152456.1	461	gtggcccttgacgcagaaatgag	416958	-	see also 23044 line
52066	MGC34680	NM_152346.1	1460	cacaatcgtcgaggattatcc	415754	-	see also 23045 line
52067	MGC34680	NM_152346.1	609	gaacttcggtccagttttatgc	415752	-	see also 23045 line
52068	MGC34713	NM_173665.1	731	atcttcagcgttctttagtgagc	427197	-	see also 23046 line
52069	MGC34713	NM_173665.1	446	ttgaatggctaaactataat	427187	-	see also 23046 line
52070	MGC34728	NM_152533.1	546	ctcgggctccagattttacatc	417728	-	-
52071	MGC34728	NM_152533.1	544	ggctcggggctccagattttaca	417727	-	see also 52070 line
52072	MGC34741	NM_153356.1	1023	ggcgcgtgctggtttatgtga	423040	-	see also 23047 line
52073	MGC34741	NM_153356.1	210	gccaaatcacgggaacttoatttg	423034	-	see also 23047 line
52074	MGC34741	NM_153356.1	209	ggcgaatcacgggacttcaatt	423033	-	see also 23047 line
52075	MGC34799	NM_182575.1	601	ctgcgaggggtgtgttatatgt	434487	-	see also 23048 line
52076	MGC34799	NM_182575.1	1443	tgcgctccctagcacatgataac	434498	-	see also 23048 line
52077	MGC34805	NM_173525.1	329	ccactgcactcgggaataactca	425469	-	see also 23049 line
52078	MGC34805	NM_173525.1	601	ctcggctacttgggtcattacc	425473	-	see also 23049 line
52079	MGC34824	NM_173652.1	755	tcaagcgactaacatggaaca	427077	-	see also 23050 line
52080	MGC34824	NM_173652.1	798	cactgtgcaacagattacatacc	427079	-	see also 23050 line
52081	MGC34830	NM_152314.1	369	ggccagtttagcaaatgtcttg	415517	-	see also 23051 line
52082	MGC34830	NM_152314.1	370	ggccagtttagcaaatgtctgc	415518	-	see also 23051 line
52083	MGC34831	NM_152632.1	188	gtgtaccgccctccgattactgt	419238	-	see also 23052 line
52084	MGC34831	NM_152632.1	1544	ttcaatcagtatattagcttt	419301	-	see also 23052 line
52085	MGC34919	NM_182582.1	1412	cacgatattgtgtgtacatat	434516	-	see also 23053 line
52086	MGC34919	NM_182582.1	1448	cacacacgattatatgtgtatg	434517	-	see also 23053 line
52087	MGC35010	NM_178505.2	585	ggcgggatacactgagatacaact	430936	-	see also 23054 line
52088	MGC35010	NM_178505.2	630	gtggggaacagcggtgacatact	430937	-	see also 23054 line
52089	MGC35033	NM_152319.2	308	ggcctccagcttcttctgagcc	415589	-	-
52090	MGC35033	NM_152319.2	193	gtgtgacagtttttaaggatat	415588	-	see also 52089 line
52091	MGC35043	NM_152770.1	284	cagcaaaagacgcttaacaaatgc	420899	-	see also 23055 line
52092	MGC35043	NM_152770.1	451	caggctaaagcgggaagattttg	420902	-	see also 23055 line
52093	MGC35048	NM_153208.1	838	accgagccgtcaagcaagaactc	422141	-	see also 23056 line
52094	MGC35048	NM_153208.1	842	agccgtcaagcaagaactctgtg	422142	-	see also 23056 line
52095	MGC35048	NM_153208.1	1205	ttctgactgagtggttatcaaac	422147	-	see also 23056 line
52096	MGC35062	NM_198515.1	312	cgcgttttgatcgagagaagtaag	438913	-	see also 23057 line
52097	MGC35062	NM_198515.1	313	ggcgttttgatcgagagaagtaag	438914	-	see also 23057 line
52098	MGC35097	NM_173546.1	976	gctcgcgatgagggataagagg	425829	-	see also 23058 line

図46 (続き)

1375

52099	MGC35097	NM_173546.1	897	ttctactctcgccacacttgt	425826	-	see also 23058 line
52100	MGC35118	NM_152453.2	383	acgttggtccacagtatacaga	416944	-	see also 23059 line
52101	MGC35118	NM_152453.2	392	cacagtatacaagaacttcaaca	416945	-	see also 23059 line
52102	MGC35138	NM_173573.1	648	aagcgacctctctgaacacattc	426288	-	see also 23060 line
52103	MGC35138	NM_173573.1	815	cagagctctctggaaagcattcc	426290	-	see also 23060 line
52104	MGC35154	NM_152614.1	180	cactgactggcaggatagatgc	418846	-	see also 23061 line
52105	MGC35154	NM_152614.1	177	atccactgactggcaggatag	418845	-	see also 23061 line
52106	MGC35154	NM_152614.1	223	accccaaggcccatatacaatc	418848	-	see also 23061 line
52107	MGC35169	NM_152324.1	526	gaagagagataaggatgttaac	415592	-	see also 23062 line
52108	MGC35169	NM_152324.1	194	atgtctctgtatgacattgt	415590	-	see also 23062 line
52109	MGC35179	NM_153230.1	1382	atgaatcagagcttgctattt	422417	-	see also 23063 line
52110	MGC35179	NM_153230.1	1295	ttcaaggcgagaatttatcaaaa	422413	-	see also 23063 line
52111	MGC35182	NM_153707.1	643	ctcggagacagtaaatatccattg	423796	-	see also 23064 line
52112	MGC35182	NM_153707.1	574	tgatttgctcagaagataaag	423792	-	see also 23064 line
52113	MGC35182	NM_153707.1	584	cagcagctataagaagaattaca	423795	-	see also 23064 line
52114	MGC35194	NM_152290.1	627	tacaactatggactctatggc	415386	-	see also 23065 line
52115	MGC35194	NM_152290.1	504	cacctatgacacattatacaacc	415384	-	see also 23065 line
52116	MGC35206	NM_178552.2	598	aagttctcggaggccagaaaagg	431190	-	see also 23066 line
52117	MGC35206	NM_178552.2	566	ctcggaggagcagctcaaaagg	431189	-	see also 23066 line
52118	MGC35206	NM_178552.2	839	gtggcacagaaaaatgctatga	431196	-	see also 23066 line
52119	MGC35212	NM_152764.1	932	ctgcacgttgcttctatcaaca	420872	-	see also 23067 line
52120	MGC35212	NM_152764.1	736	aagtagttcgaatagatgttcc	420866	-	see also 23067 line
52121	MGC35261	NM_173494.1	652	ctcttgaatcacatgactatg	425153	-	see also 23068 line
52122	MGC35261	NM_173494.1	162	ggcctcttaagctacttaatcc	425141	-	see also 23068 line
52123	MGC35293	NM_152717.1	312	atctggcgcgtctactatcttc	420070	-	see also 23069 line
52124	MGC35392	NM_153336.1	588	atcggtgtgttcgctatgta	422769	-	see also 23070 line
52125	MGC35392	NM_153336.1	931	accagctggctggaaaatttca	422780	-	see also 23070 line
52126	MGC35468	NM_153244.1	372	atcttgagcccgaaaagagaaag	422577	-	see also 23071 line
52127	MGC35468	NM_153244.1	505	aagtcggggacaagtgatgaagc	422580	-	see also 23071 line
52128	MGC35521	NM_145065.1	1472	atggctcgctcgccctcatttc	413485	-	see also 23072 line
52129	MGC35521	NM_145065.1	1473	tggtcgctcgccctcatttc	413486	-	see also 23072 line
52130	MGC35555	NM_178565.3	392	acgcagtaagcagagctagttag	431295	-	see also 23073 line
52131	MGC35555	NM_178565.3	393	cgcagtaagcagagctagttagt	431296	-	see also 23073 line
52132	MGC35555	NM_178565.3	399	aagcagctagtattatgatacaa	431298	-	see also 23073 line
52133	MGC35558	NM_145013.1	393	caggatgtgcatgccatagtaac	412616	-	see also 23074 line
52134	MGC35558	NM_145013.1	549	atctgcaaggccctatagtag	412618	-	see also 23074 line
52135	MGC3731	NM_024313.1	78	ggcggagctgctttagcttcg	386225	-	see also 23075 line
52136	MGC3731	NM_024313.1	540	tgcacacagccgcaaaaaggta	386230	-	see also 23075 line
52137	MGC3794	NM_152902.2	758	tacgtcacgagaaagcaaaattt	421557	-	see also 9960 line
52138	MGC3794	NM_152902.2	433	aacctatgattggacattatca	421544	-	see also 9960 line
52139	MGC39325	NM_147189.1	1155	tcctcgaagcttaagtcaaga	415085	-	see also 23077 line
52140	MGC39325	NM_147189.1	1401	cgctggcgcgtatggcatttcgc	415088	-	see also 23077 line
52141	MGC39338	NM_152480.1	358	ggcaacgcctaccacagatttaag	417024	-	see also 23078 line
52142	MGC39338	NM_152480.1	356	ggggcacgcctaccacagattta	417023	-	see also 23078 line

図46 (続き)

1376

52143	MGC39350	NM_144970.1	600	gtggcagttatctccagaataga	412044	-	see also 9751 line
52144	MGC39518	NM_173822.1	1632	aacaatgctaactcgtactcaac	428386	-	see also 10117 line
52145	MGC39518	NM_173822.1	862	aactctgtgctgaatagtattg	428357	-	see also 10117 line
52146	MGC39520	NM_153364.1	613	acggtcccgaaatgtaacaatg	423060	-	see also 23080 line
52147	MGC39520	NM_153364.1	519	tacaaaggcgagttactatatt	423058	-	see also 23080 line
52148	MGC39571	NM_152728.1	448	gagattctacatgctctcaatga	420136	-	see also 23081 line
52149	MGC39571	NM_152728.1	384	ctggtttatcagccacacttaca	420134	-	see also 23081 line
52150	MGC39581	NM_152784.2	1839	atgcagccgagtagtggttact	421202	-	see also 23082 line
52151	MGC39581	NM_152784.2	2213	tggagtcgtcactctactatca	421211	-	see also 23082 line
52152	MGC39633	NM_152549.1	1414	gcoagcgccagtttaagttaaaa	417969	-	see also 23083 line
52153	MGC39633	NM_152549.1	1411	aagccagcgccagtttaagtta	417966	-	see also 23083 line
52154	MGC39655	NM_182541.1	359	cacgtaggacacctacacatcc	434277	-	see also 23084 line
52155	MGC39655	NM_182541.1	390	aacgtacacacctttgaagtc	434279	-	see also 23084 line
52156	MGC39662	NM_152394.2	1864	atcgtgcctgttttaataaact	416248	-	see also 23085 line
52157	MGC39662	NM_152394.2	1805	ttccaatctcgcgtacgttaagt	416245	-	see also 23085 line
52158	MGC39662	NM_152394.2	1861	aagatcgtcgcctgttttaataa	416247	-	see also 23085 line
52159	MGC39681	NM_174939.2	212	ttgcgcttgcataatgttat	428761	-	see also 23086 line
52160	MGC39681	NM_174939.2	344	ctgcagctgctgttagatctac	428763	-	see also 23086 line
52161	MGC39724	NM_174906.1	506	tccttggaaccccaactcatct	428577	-	see also 23088 line
52162	MGC39725	NM_152397.1	87	gacgaaggaaacctcaaaagaag	416256	-	see also 23089 line
52163	MGC39725	NM_152397.1	360	gtgctgtgtgctgctgactagt	416258	-	see also 23089 line
52164	MGC39827	NM_178499.2	610	ctcaaaaggaaacctatacgaag	430896	-	see also 23090 line
52165	MGC39827	NM_178499.2	1558	aagttcaaaaacccgactaatg	430908	-	see also 23090 line
52166	MGC39827	NM_178499.2	847	gtcacacgtgcccttactctcc	430901	-	see also 23090 line
52167	MGC39830	NM_152756.1	451	gacacaagcaacttagatagta	420679	-	see also 23091 line
52168	MGC39830	NM_152756.1	333	tacgagcgtctcgtatctctac	420672	-	see also 23091 line
52169	MGC39830	NM_152756.1	334	acgagcgtcttggatatctcatcc	420673	-	see also 23091 line
52170	MGC40053	NM_152583.1	441	gcccaggtgcgtctaccatacc	418256	-	see also 23092 line
52171	MGC40053	NM_152583.1	1164	cacgaacaagaactggaattggg	418270	-	see also 23092 line
52172	MGC40069	NM_182615.1	405	ctcagcctaataatgttagagg	434704	-	see also 23093 line
52173	MGC40069	NM_182615.1	403	ggctcacgctaataatgttaga	434703	-	see also 23093 line
52174	MGC40084	NM_152769.1	1255	ctcggcaggtattttcagtaga	420893	-	-
52175	MGC40157	NM_152350.1	424	tgcgaattgtggaagaatcagc	415766	-	see also 23094 line
52176	MGC40157	NM_152350.1	132	gcccggggcagcgtgttgagatgg	415764	-	see also 23094 line
52177	MGC40168	NM_153709.1	729	ggcttcgtctctcctcaatgtat	423822	-	-
52178	MGC40168	NM_153709.1	464	tgggaattgaagaagatgttaat	423821	-	see also 52177 line
52179	MGC40178	NM_152325.1	162	ttgcgaataacgggtaccagaaga	415593	-	see also 23095 line
52180	MGC40178	NM_152325.1	170	aacggtatcagaagaattaggata	415594	-	see also 23095 line
52181	MGC40178	NM_152325.1	201	cacttagtctctctctcctcaat	415598	-	see also 23095 line
52182	MGC40179	NM_173472.1	348	cacacccgtccgacctgaagtgc	424908	-	see also 23096 line
52183	MGC40179	NM_173472.1	460	tgcgcagatgaacacaaagg	424910	-	see also 23096 line
52184	MGC40195	NM_152441.1	942	ctcggggcgtggatgttggttct	416839	-	see also 23097 line
52185	MGC40195	NM_152441.1	1291	aaggaggcacaggagggaatttc	416841	-	see also 23097 line
52186	MGC40214	NM_152416.1	216	acgggattatgaaggattattat	416846	-	see also 23098 line

1377

図46 (続き)

52187	MGC40214	NM_152416.1	355	tggatctgaacactaacattg	416492	-	see also 23098 line
52188	MGC40222	NM_152738.1	279	atgattcagtgatgaacagg	420297	-	see also 23099 line
52189	MGC40222	NM_152738.1	424	atggaacaccttagtgaacattg	420300	-	see also 23099 line
52190	MGC40368	NM_152772.1	747	tccctgagagataatgataca	420938	-	see also 23100 line
52191	MGC40368	NM_152772.1	744	tgtccctgagagataatgata	420936	-	see also 23100 line
52192	MGC40397	NM_152318.1	293	tgcaccaccttgctgttcaata	415578	-	see also 23101 line
52193	MGC40397	NM_152318.1	299	acctgtgtttcaatttgaaa	415581	-	see also 23101 line
52194	MGC40397	NM_152318.1	295	caaccacctgtgttcaattatt	415579	-	see also 23101 line
52195	MGC40499	NM_152755.1	535	gcacagctggaggatcaatacc	420654	-	see also 23102 line
52196	MGC40499	NM_152755.1	195	gcaaaagcttggccagcaaatgc	420650	-	see also 23102 line
52197	MGC4093	NM_030578.2	448	agcttgacagctatggttttgc	394699	-	see also 23103 line
52198	MGC4126	NM_032773.2	733	tacagacgataccctagataac	401377	-	see also 23104 line
52199	MGC4126	NM_032773.2	272	gtcggaaatgcctttcagaaa	401357	-	see also 23104 line
52200	MGC41816	NM_016466.4	360	caacgagctctgtctacacatg	357595	-	see also 23105 line
52201	MGC41816	NM_016466.4	361	acgagctctgtctacacatg	357596	-	see also 23105 line
52202	MGC4189	NM_032308.1	120	gcccggacagctctcaaacagg	399635	-	see also 23106 line
52203	MGC4189	NM_032308.1	175	ttctgaagacagcttctagtgc	399636	-	see also 23106 line
52204	MGC41906	NM_152474.2	460	atctctatagatatagact	417009	-	see also 23107 line
52205	MGC41906	NM_152474.2	529	ctcagataccgttattaggaga	417013	-	see also 23107 line
52206	MGC42090	NM_152774.1	263	tgcagtagccagttatgaacaga	420994	-	see also 23108 line
52207	MGC42090	NM_152774.1	153	ctcgggagctcacaagaataac	420992	-	see also 23108 line
52208	MGC42157	NM_153241.1	330	gcatgtgtacagaactcttc	422569	-	see also 23109 line
52209	MGC42157	NM_153241.1	87	ctggccctcaagggtaaagtca	422568	-	see also 23109 line
52210	MGC4238	NM_032332.2	101	cagtgagagccgtacagattaat	399765	-	see also 23110 line
52211	MGC4238	NM_032332.2	105	gcagccgtacagttatgtgtg	399767	-	see also 23110 line
52212	MGC4248	NM_032333.2	569	gtctggaggtgtgtacaacttc	399776	-	see also 23111 line
52213	MGC4248	NM_032333.2	459	gactgaagtgaaggtttccagc	399775	-	see also 23111 line
52214	MGC42493	NM_178549.2	592	tgcataactactcaatgttc	431172	-	see also 23112 line
52215	MGC42493	NM_178549.2	494	aagtgacactgacaagacataga	431166	-	see also 23112 line
52216	MGC4251	NM_032376.2	516	aggacccgtctcgtactgaac	400066	-	see also 23113 line
52217	MGC4251	NM_032376.2	336	ggctgaagctcgtatgtactcgc	400065	-	see also 23113 line
52218	MGC42530	NM_173570.1	454	gtgctgagtgattacatgtaaa	426243	-	see also 23114 line
52219	MGC42530	NM_173570.1	984	atgtcggcagctctcaacaatgc	426251	-	see also 23114 line
52220	MGC42630	NM_175923.2	105	accgctggcgcgaagagattga	429589	-	see also 23115 line
52221	MGC42630	NM_175923.2	104	aaccgctggcgcgaagagattg	429588	-	see also 23115 line
52222	MGC42630	NM_175923.2	47	tgtcgggagccgaagatctcc	429587	-	see also 23115 line
52223	MGC4268	NM_031445.1	491	aggaaagcgtctgaaggtacg	397040	-	see also 23116 line
52224	MGC4268	NM_031445.1	517	acgtcgcctcatgaaagtgtgt	397042	-	see also 23116 line
52225	MGC43033	NM_152711.1	165	caagttcaacggaaattcaca	420006	-	see also 23116 line
52226	MGC43033	NM_152711.1	163	tccagctgttcaacggaaattca	420005	-	see also 23116 line
52227	MGC43033	NM_152711.1	559	ggccgagggacttgggtttaca	420012	-	see also 23116 line
52228	MGC4308	NM_032359.2	560	ttgtctaaagtgggtaaactta	399967	-	see also 23117 line
52229	MGC4308	NM_032359.2	680	aggagacggcaaggtataaat	399970	-	see also 23117 line
52230	MGC43122	NM_173513.2	341	aaggacaattggcagtagatga	425266	-	see also 23118 line

図46 (続き)

1378

52231	MGC43122	NM_173513.2	398	accactgtcccgaggaaagagg	425267	-	see also 23118 line
52232	MGC43690	NM_182552.2	2300	ctcacggcctgtccataaatct	434397	-	see also 23119 line
52233	MGC43690	NM_182552.2	2156	cacgaagggtgcagtagacatga	434392	-	see also 23119 line
52234	MGC43690	NM_182552.2	1442	accgaacctccactgtatctgg	434376	-	see also 23119 line
52235	MGC44287	NM_182607.2	394	tcacaagatccaggttaagcatc	434609	-	see also 23120 line
52236	MGC44287	NM_182607.2	1000	gacgtaccacactagaagtaac	434625	-	see also 23120 line
52237	MGC44294	NM_173499.1	282	acctgtgcgacattctcaga	425167	-	see also 23121 line
52238	MGC44294	NM_173499.1	320	ctcgagctggaggccttcaagg	425168	-	see also 23121 line
52239	MGC44505	NM_178553.2	1257	ccccagctgtggagatctctata	431199	-	see also 23122 line
52240	MGC44505	NM_178553.2	589	ttggggctctccacaactgtgg	431197	-	see also 23122 line
52241	MGC44593	NM_173554.1	908	ggcctttaatgcacgaatagaaa	426024	-	see also 23123 line
52242	MGC44593	NM_173554.1	862	tcggcattcacagacagataaac	426019	-	see also 23123 line
52243	MGC4473	NM_080719.1	565	gacaaagtgaacgttctgttcc	406669	-	see also 23124 line
52244	MGC4473	NM_080719.1	590	gtgtgttgaggctaaagagaga	406670	-	see also 23124 line
52245	MGC4504	NM_024111.2	438	cagtgctgtggctctacgatacc	386065	-	see also 23125 line
52246	MGC4504	NM_024111.2	604	ctccggccacaaccttgatact	386067	-	see also 23125 line
52247	MGC45386	NM_198527.1	165	ggaggcgggaatcaactgacattgt	439137	-	see also 23126 line
52248	MGC45386	NM_198527.1	391	cagacaagctgtacaactctgagg	439139	-	see also 23126 line
52249	MGC45400	NM_153333.1	436	caacccgttaggcatttgaacc	422768	-	-
52250	MGC45400	NM_153333.1	245	atgcaaaagtctgtgaagaaaa	422766	-	see also 52249 line
52251	MGC45400	NM_153333.1	408	atcagcctggccaggatttaaa	422767	-	see also 52249 line
52252	MGC45416	NM_152338.1	407	gactagtctccagggttatttg	416263	-	see also 23127 line
52253	MGC45416	NM_152338.1	218	ctgctctgtgaacccaagataaa	416261	-	-
52254	MGC45441	NM_152499.1	482	cccaagcttggtgctcagtagc	417214	-	-
52255	MGC45441	NM_152499.1	387	acacccgctctctctaaaggacc	417213	-	see also 52254 line
52256	MGC45441	NM_152499.1	361	atctctgacccctctctctctt	417212	-	see also 52254 line
52257	MGC45474	NM_152369.2	1100	tacatgtggtcgtaccatttaac	415871	-	see also 23128 line
52258	MGC45474	NM_152369.2	1153	tgcgtgcgaagcaaatgactatag	415876	-	see also 23128 line
52259	MGC4549	NM_032377.2	188	ttccagagccccaataacgtatct	400070	-	-
52260	MGC4549	NM_032377.2	23	ggcgccagaaagtcaaaacgaaa	400068	-	see also 52259 line
52261	MGC4549	NM_032377.2	24	ggcgagaaagtcaaaacgaaaag	400069	-	see also 52259 line
52262	MGC45491	NM_153246.1	984	cacggctaatcgctctaatatc	422592	-	see also 23129 line
52263	MGC45491	NM_153246.1	949	cccgagcgcgagaagaaattaca	422591	-	see also 23129 line
52264	MGC45714	NM_152464.1	574	gggtctggcagcgtgtatgtca	416980	-	see also 23130 line
52265	MGC45714	NM_152464.1	286	tcacaggaaacccagaaactagtg	416970	-	see also 23130 line
52266	MGC45780	NM_173833.2	659	ggccctgactgcgaatgtgaacc	428450	-	see also 23131 line
52267	MGC45780	NM_173833.2	673	atgtgaacccggcgaatgagagc	428451	-	see also 23131 line
52268	MGC45866	NM_152259.2	1092	tgccaggctccgcaacaactaga	415186	-	see also 23132 line
52269	MGC45866	NM_152259.2	1196	tggcctcccaaaactcgaatta	415188	-	see also 23132 line
52270	MGC45871	NM_182705.1	99	agctctggagcgaagaagaag	434922	-	see also 23133 line
52271	MGC45871	NM_182705.1	683	agcgacgacctctctgtaagt	434923	-	see also 23133 line
52272	MGC45873	NM_152486.1	1402	ggccttgccggtcaaaactcacc	417056	-	see also 23134 line
52273	MGC45873	NM_152486.1	1251	caggcgctggggccgagtttct	417054	-	see also 23134 line
52274	MGC45962	NM_152644.1	286	gccttgctctgctgtagttgt	419459	-	-

図46 (続き)

1379

52275	MGC45962	NM_152644.1	285	ggccttgctcctgctgtagttg	419458	-	see also 52274 line
52276	MGC4606	NM_024516.2	758	tcctcggcagcggaataactga	386572	-	-
52277	MGC4606	NM_024516.2	502	cacatgccacgggaattgattt	386570	-	see also 52276 line
52278	MGC4606	NM_024516.2	510	cacgaattgatttttgatgatg	386571	-	see also 52276 line
52279	MGC4614	NM_024294.1	422	gtcaataccctcgggatactagt	386157	-	see also 23135 line
52280	MGC4614	NM_024294.1	981	agcagtcacgcgaacaacttctc	386172	-	see also 23135 line
52281	MGC4614	NM_024294.1	428	acctcggatactagttgtaa	386158	-	see also 23135 line
52282	MGC4618	NM_032326.2	467	gccttacacgttttctgtaagg	399743	-	see also 23136 line
52283	MGC4618	NM_032326.2	465	ctgccttacacgttttctgtaag	399741	-	see also 23136 line
52284	MGC4645	NM_024515.2	533	ctcagtcgaccgcaccattatg	386567	-	see also 23137 line
52285	MGC4645	NM_024515.2	316	gtgttcgaagtgaccttagaactc	386562	-	see also 23137 line
52286	MGC46496	NM_174952.1	444	tacacttggtccacatactaca	428788	-	see also 23138 line
52287	MGC46496	NM_174952.1	651	ttcattttcccccagactatag	428793	-	see also 23138 line
52288	MGC46534	NM_153340.2	1062	ctctcgcgagtggaattggatg	422802	-	see also 9989 line
52289	MGC46534	NM_153340.2	565	cccatggtccccccttcaaga	422798	-	see also 9989 line
52290	MGC4659	NM_025268.2	889	ggccttcttcgtcggcaaaacg	394628	-	-
52291	MGC4659	NM_025268.2	381	tcctgtgttcctttacatcttc	394627	-	see also 52290 line
52292	MGC46719	NM_153713.1	353	ggcctatgcccagtggaatgg	423843	-	see also 23140 line
52293	MGC46719	NM_153713.1	614	aagaatacctgatgagttctacg	423853	-	see also 23140 line
52294	MGC46732	NM_153714.1	265	gggtccacagagacttaaacattc	423867	-	see also 23141 line
52295	MGC46732	NM_153714.1	369	gagttcatctacgcaaaagtag	423873	-	see also 23141 line
52296	MGC4701	NM_024511.3	1674	aagcctcatttgaaacttctaca	386503	-	see also 23142 line
52297	MGC4701	NM_024511.3	1045	atgaattacacaaattgatgatg	386482	-	see also 23142 line
52298	MGC4707	NM_024113.2	330	gggcaaaaatggcggatttgctga	386074	-	see also 23143 line
52299	MGC4707	NM_024113.2	789	ctcaagacaccgtgggaatcaacc	386078	-	see also 23143 line
52300	MGC4707	NM_024113.2	277	cccaacaataggatcatctttt	386072	-	see also 23143 line
52301	MGC4734	NM_145051.2	184	cagtttccatcccccaaaatgc	413202	-	see also 23145 line
52302	MGC4734	NM_145051.2	587	aacctoagttccgcatoctttgc	413203	-	see also 23145 line
52303	MGC47799	NM_173545.1	737	cagtgaggtaagttaaccagg	425797	-	see also 10081 line
52304	MGC47799	NM_173545.1	1245	aagagacatctctgcatgatgg	425809	-	see also 10081 line
52305	MGC47869	NM_175874.2	316	agccgagatgaataactcaaat	429392	-	see also 23147 line
52306	MGC47869	NM_175874.2	317	gcgcagatgaataactcaaatc	429393	-	see also 23147 line
52307	MGC4825	NM_024122.2	722	ctggggtttacggagatatag	386143	-	see also 23148 line
52308	MGC4825	NM_024122.2	504	gggttagacagctatgactatct	386138	-	see also 23148 line
52309	MGC48935	NM_178536.2	196	aagccttttccgcgaacttttga	431116	-	see also 23149 line
52310	MGC48935	NM_178536.2	207	cgaacttttgagtaagtgtg	431118	-	see also 23149 line
52311	MGC48972	NM_173475.1	731	caggttccctagcctctaaca	424931	-	see also 10089 line
52312	MGC48986	NM_175881.2	375	caaggctcatagatagatgaca	429490	-	see also 23151 line
52313	MGC48986	NM_175881.2	373	tgcacgggctacatagatcatga	429489	-	see also 23151 line
52314	MGC48998	NM_178550.2	134	atgttcagggacaaattgtataa	431176	-	see also 23152 line
52315	MGC48998	NM_178550.2	139	caggggacaaattgtataagcatt	431178	-	see also 23152 line
52316	MGC50104	NM_198498.1	159	gcoggtcaogtaaggttactacg	438605	-	see also 23153 line
52317	MGC50104	NM_198498.1	175	tactacggtgtcagaagatcttt	438606	-	see also 23153 line
52318	MGC50104	NM_198498.1	702	cccttcatgacggtgtcaaatg	438610	-	see also 23153 line

1380

図46 (続き)

52319	MGC50372	NM_173566.1	996	gcctctcgcgccccaaaggta	426209	-	see also 23154 line
52320	MGC50372	NM_173566.1	1227	gcctccgagagctatccat	426213	-	see also 23154 line
52321	MGC50372	NM_173566.1	1230	atccgagagctatccatagg	426214	-	see also 23154 line
52322	MGC50721	NM_173806.2	380	aggatatactctcgagaatttt	428056	-	see also 23155 line
52323	MGC50721	NM_173806.2	900	gcccaactggtatacaagggttg	428068	-	see also 23155 line
52324	MGC50811	NM_198559.1	262	aactcgagctgacatactgc	439505	-	see also 23156 line
52325	MGC50811	NM_198559.1	642	ctctgctattgacctataaaa	439508	-	see also 23156 line
52326	MGC50844	NM_178562.2	481	tgggtccctccgcgagacatct	431288	-	see also 10198 line
52327	MGC50896	NM_182553.1	376	gcgggacgcgagcggttaaaaa	434408	-	see also 23158 line
52328	MGC50896	NM_182553.1	377	cgggcagcgcgagcggttaaaaa	434409	-	see also 23158 line
52329	MGC50896	NM_182553.1	378	gggcaacgcgagcggttaaaaa	434410	-	see also 23158 line
52330	MGC51025	NM_178571.2	897	ggcactccctgtgggtatttaca	431338	-	see also 23159 line
52331	MGC51025	NM_178571.2	899	cactccctgtgtatttaccagc	431339	-	see also 23159 line
52332	MGC51029	NM_173794.2	253	cacagctcgagacattggtaga	427971	-	see also 10114 line
52333	MGC51029	NM_173794.2	392	ttcttcgattgctagtctatgt	427976	-	see also 10114 line
52334	MGC51082	NM_182498.2	506	cccgcgattccctcgtgattcaga	433961	-	-
52335	MGC51082	NM_182498.2	592	cactgcgacatccctgaattatgc	433966	-	see also 52334 line
52336	MGC51082	NM_182498.2	589	gacactgcagatccctgaattatg	433964	-	see also 52334 line
52337	MGC52010	NM_194326.1	223	ctcagagtaaacctgaatttct	436873	-	-
52338	MGC52022	NM_198563.1	222	ggccttcagcagcgttaattctca	439530	-	see also 10340 line
52339	MGC52022	NM_198563.1	487	tcctcgcgctcggcggaattgg	439537	-	see also 10340 line
52340	MGC52057	NM_194317.1	732	caagcagcaccctataatcaga	436797	-	see also 23162 line
52341	MGC52057	NM_194317.1	760	gggcacccacgcgtgtatgtcagt	436799	-	see also 23162 line
52342	MGC5242	NM_024033.1	631	acgtccggagagatctttttcagc	385532	-	see also 23163 line
52343	MGC52423	NM_182517.1	316	gcctgtgctgtgagattgtgc	434055	-	see also 23164 line
52344	MGC5306	NM_024116.1	379	gtgttcacgcaagtgattcactca	386084	-	see also 23166 line
52345	MGC5306	NM_024116.1	382	ttcacgcaagtgattcactcaagt	386085	-	see also 23166 line
52346	MGC5309	NM_032286.1	93	tcctccacgctccacataaggtgc	399349	-	see also 23167 line
52347	MGC5309	NM_032286.1	329	tgtcgtgcaagattaccctttta	399354	-	see also 23167 line
52348	MGC5309	NM_032286.1	173	acccttgctgctgtcttttc	399351	-	see also 23167 line
52349	MGC5356	NM_024059.2	910	tgtcgtccacgcgattcctataag	385708	-	see also 23168 line
52350	MGC5356	NM_024059.2	914	gcccaacgcgattcctataagttca	385710	-	see also 23168 line
52351	MGC5384	NM_030972.2	1549	cacagctggcctgcacatagaaga	395901	-	see also 23169 line
52352	MGC5384	NM_030972.2	1554	ctggctcgacatagaagaattca	395904	-	see also 23169 line
52353	MGC54289	NM_178454.1	291	ccccaggacacaaagggtatgctc	430777	-	see also 10190 line
52354	MGC54289	NM_178454.1	308	atgtcttcacatgactcactact	430778	-	see also 10190 line
52355	MGC5508	NM_024092.1	169	ggcagctcccgctcgagactttgc	385953	-	see also 23171 line
52356	MGC5508	NM_024092.1	402	gggactagctggtgattactcgc	385956	-	see also 23171 line
52357	MGC5509	NM_024093.1	216	cagaggggatttgcgagaagaatag	385959	-	see also 8589 line
52358	MGC5509	NM_024093.1	220	gggatttgcgagaagaatagatgg	385960	-	see also 8589 line
52359	MGC5528	NM_024094.1	927	agcagcagcgaatgctacttcaga	385992	-	see also 23173 line
52360	MGC5528	NM_024094.1	1108	ggagataatcaggaacgttttaa	385997	-	see also 23173 line
52361	MGC5576	NM_024056.2	267	gcctcagcgaactaagcaatat	385685	-	see also 23175 line
52362	MGC5576	NM_024056.2	609	ggaggacggttttctatgtgtac	385693	-	see also 23175 line

図46 (続き)

1381

52363	MGC5590	NM_024058.1	245	caagtggcaatgccattagc	385700	-	see also 23176 line
52364	MGC5590	NM_024058.1	313	ctcgccttgatcagcaagataa	385703	-	see also 23176 line
52365	MGC57211	NM_175878.2	783	agctaccgccgatagaattcttc	429476	-	see also 23177 line
52366	MGC57211	NM_175878.2	886	gagcctaccgctttgttaataca	429481	-	see also 23177 line
52367	MGC57211	NM_175878.2	614	ctcgggtctgttccacaattaat	429472	-	see also 23177 line
52368	MGC57858	NM_178508.2	907	ggctgtagacacaccttgccttc	430947	-	-
52369	MGC59868	NM_198584.1	76	cggagagacacagctcctatca	439814	-	see also 23178 line
52370	MGC59868	NM_198584.1	185	tcggaccacttagtatcaagtat	439822	-	see also 23178 line
52371	MGC59868	NM_198584.1	182	ccctcgacacacttagtatcaag	439821	-	see also 23178 line
52372	MGC5987	NM_138476.2	233	gctgaggctcctaaacagattgc	408357	-	see also 23179 line
52373	MGC5987	NM_138476.2	154	tagaacctccgttccataagagc	408356	-	see also 23179 line
52374	MGC61550	NM_182616.1	262	agcgtaactagctgtatatac	434707	-	see also 23180 line
52375	MGC61550	NM_182616.1	312	ttcgagcgccaagggaatgaat	434709	-	see also 23180 line
52376	MGC61571	NM_182523.1	295	ctggagttcttattgtgtataaa	434159	-	see also 23181 line
52377	MGC61571	NM_182523.1	193	gacattgtcgaaaaagattgttg	434156	-	see also 23181 line
52378	MGC61599	NM_182506.3	538	gacattgtattccgttgataaa	433998	-	see also 23182 line
52379	MGC61599	NM_182506.3	503	aacttgaagtttgcgcaaatgt	433997	-	see also 23182 line
52380	MGC61633	NM_198572.1	1167	ccccctccgaatgcataatc	439714	-	-
52381	MGC61633	NM_198572.1	1166	tcgccctccgaatgcataat	439713	-	see also 52380 line
52382	MGC61633	NM_198572.1	1165	atccccctccgaatgcataat	439712	-	see also 52380 line
52383	MGC61716	NM_182501.1	818	agcgctggagcaggtaccacaac	433975	-	see also 23183 line
52384	MGC61716	NM_182501.1	498	ctccagttaccctgcaaaagcttg	433971	-	see also 23183 line
52385	MGC64882	NM_182627.1	1085	tagcttggttgtaataattttt	434785	-	see also 23184 line
52386	MGC64882	NM_182627.1	1082	ctgtggtctcgtgtgttaatt	434784	-	see also 23184 line
52387	MGC7036	NM_145058.1	841	gttgtaactagtgcccaaaaatgc	413340	-	see also 23185 line
52388	MGC71745	NM_198449.1	381	ttccttgaggagtcatacatat	437825	-	-
52389	MGC71745	NM_198449.1	404	cactgactgaacatcttctatgtg	437828	-	see also 52388 line
52390	MGC71745	NM_198449.1	382	tccttgaggagtcatacatatc	437826	-	see also 52388 line
52391	MGC71806	NM_198516.1	1915	gagcgcctcagaaactgtactaca	438945	-	see also 10337 line
52392	MGC71806	NM_198516.1	838	tgggtgcgttaacctctcatttc	438931	-	see also 10337 line
52393	MGC8721	NM_016127.3	310	gaggaacttagatattgcaataca	356351	-	see also 6679 line
52394	MGC8721	NM_016127.3	106	ctggaaagccctgacagaatgt	356340	-	see also 6679 line
52395	MGC874	NM_016500.3	443	ggaccttaggataagatgtttgg	357890	-	see also 23188 line
52396	MGC874	NM_016500.3	647	tcggaaacgggaaggcctataaca	357895	-	see also 23188 line
52397	MGC8974	NM_052940.3	669	aacaggatctcgtgatttcga	405441	-	see also 9463 line
52398	MGC8974	NM_052940.3	866	agcacagttcagtgatgaaaa	405449	-	see also 9463 line
52399	MGC9084	NM_033418.1	1101	aagcttgtaactaagtagtgaaga	403849	-	see also 23190 line
52400	MGC9084	NM_033418.1	651	cagcatgttaagttatcagtagt	403841	-	see also 23190 line
52401	MGC955	NM_024097.1	281	gtcatagctgagcaaatccaaaca	386006	-	see also 23191 line
52402	MGC955	NM_024097.1	285	tagctgagcaaatcccaatttg	386007	-	see also 23191 line
52403	MGC9712	NM_152689.2	2037	ggctgtgggaatgcctctattt	419818	-	see also 23192 line
52404	MGC9850	NM_152705.1	408	ctcgaggtccgcoagttactcc	419919	-	see also 23193 line
52405	MGC9850	NM_152705.1	229	tcctcttgctgacccaataaaa	419915	-	see also 23193 line
52406	MGC9850	NM_152705.1	235	tgttagccaataaaagatttc	419917	-	see also 23193 line

図46 (続き)

1382

52407	MGC:1337	NM_016499.2	340	tgccatgatggcctctattacc	357888	-	see also 23194 line
52408	MIA2	NM_054024.2	164	gcgcgatacctgacttacttaag	405976	-	see also 23195 line
52409	MIA2	NM_054024.2	1342	gacgaatctgatactataccata	406000	-	see also 23195 line
52410	MIB	NM_020774.1	365	atgccttttaccgaattactaca	378781	-	see also 7952 line
52411	MINA53	NM_032778.3	1115	ctgttgcatacgaagcagtaagt	401436	-	see also 9281 line
52412	MINA53	NM_032778.3	867	cagcccgatgacaggttatgc	401428	-	see also 9281 line
52413	MIR	NM_145021.2	355	tgagcaatttcatgagtcacca	412789	-	see also 23198 line
52414	MIR	NM_145021.2	752	gtccttgatgtcttoattgacc	412791	-	see also 23198 line
52415	MIS12	NM_024039.1	664	ggcggttgaacagggttatctga	385591	-	see also 23199 line
52416	MIS12	NM_024039.1	1013	cagacgttgactttcttttgatga	385597	-	see also 23199 line
52417	MIS11	NM_177455.2	272	ggcagcggatgcacaagctaat	429882	-	see also 23200 line
52418	MIZF	NM_015517.3	1179	gtccattaccgcgaagtacatg	353671	-	see also 23201 line
52419	MIZF	NM_015517.3	932	tgccgaacctatgtaactat	353664	-	see also 23201 line
52420	MKLN1	NM_013255.2	1031	aagggaggcaaatctcacattg	338446	-	see also 5368 line
52421	MKLN1	NM_013255.2	205	aagctgaaaggcctgctatag	338412	-	see also 5368 line
52422	MLR1	NM_133686.4	866	tgccttaatctgccattgaatg	423499	-	see also 10004 line
52423	MLR1	NM_133686.4	867	gccttaatctgccattgaatg	423500	-	see also 10004 line
52424	MLZE	NM_031415.1	1615	tacgaaatttcgaaatggttagg	396739	-	see also 23204 line
52425	MLZE	NM_031415.1	1038	tgggaaacaatctgactatgttc	396722	-	see also 23204 line
52426	MMAA	NM_172250.1	648	accggaatgactgagttataag	424380	-	see also 23205 line
52427	MMAA	NM_172250.1	760	aagagcgggatgacataatt	424388	-	see also 23205 line
52428	MMRP19	NM_015957.1	521	tccgagagggtattatgatag	355615	-	see also 6589 line
52429	MMRP19	NM_015957.1	335	tccgcacatcgaagaagctaaaa	355606	-	see also 6589 line
52430	MNS1	NM_018365.1	311	accgtgttcagcgcaagaattt	370861	-	see also 23207 line
52431	MNS1	NM_018365.1	1405	gagcgtgcacaacattcttgc	370881	-	see also 23207 line
52432	MO25	NM_016289.2	1021	ctcgtggaactactactagatag	356911	-	see also 6789 line
52433	MO25	NM_016289.2	1012	ctgaagcttctcgtggaactact	356910	-	see also 6789 line
52434	MOAP1	NM_022151.3	411	cctcggaaagcgcatttatg	382547	-	see also 23209 line
52435	MOAP1	NM_022151.3	767	aggcctatgcccgaaatggtg	382554	-	see also 23209 line
52436	MOB	NM_147156.2	1825	ggcgaactctgtgtatcactgg	415053	-	see also 9807 line
52437	MOB	NM_147156.2	1773	cacacgctcgtcacaacttac	415050	-	see also 9807 line
52438	MOB3B	NM_024761.2	994	aaggcctagagcctttgaaaga	390177	-	see also 23210 line
52439	MOB3B	NM_024761.2	759	tggattgaggttcagatcaaca	390174	-	see also 23210 line
52440	MOB4A	NM_173468.1	610	cgctcttttgggtttatgctca	424882	-	see also 23211 line
52441	MOB4A	NM_173468.1	563	tccggtccaaagaatttatg	424881	-	see also 23211 line
52442	moblak	NM_130807.2	741	cactccgttcccaagaacttcc	406934	-	see also 23212 line
52443	moblak	NM_130807.2	615	ccgtcggcagatgagcataagt	406932	-	see also 23212 line
52444	MOCOS	NM_017947.1	997	atcgcgctaaacatggatttga	364531	-	see also 23213 line
52445	MOCOS	NM_017947.1	2339	tgcgttttgccaattatt	364556	-	see also 23213 line
52446	MOCOS	NM_017947.1	2338	tgcgttttgccaattatt	364555	-	see also 23213 line
52447	MOCOS1	NM_005942.1	1348	ctcattgttaagggttaagaacc	334543	-	see also 23214 line
52448	MOCOS1	NM_005942.1	1361	gtctaagaccagagtgatttc	334545	-	see also 23214 line
52449	MONDOA	NM_014938.2	1338	ctcccccgttgatcaccattgttc	346221	-	see also 23215 line
52450	MONDOA	NM_014938.2	1339	tcccccgttgatcaccattgttc	346222	-	see also 23215 line

図46 (続き)

1383

52451	MONDOA	NM_014938.2	1748	aaccacaagcgggtgatacatgacg	346225	-	see also 23215 line
52452	MOPT	NM_194270.1	401	ttcccaaatggggcaagatatac	436162	-	see also 23216 line
52453	MOPT	NM_194270.1	343	agcagatatagaagacaattta	436160	-	see also 23216 line
52454	MPN2	NM_183062.2	466	ctgaagaacccgattgttttc	435584	-	see also 23217 line
52455	MPN2	NM_183062.2	403	gtgattctgcacccacataga	435582	-	see also 23217 line
52456	MR-1	NM_015488.3	357	accctaaggccactcgaaaac	353507	-	see also 6437 line
52457	MRGD	NM_198923.1	107	cctggagtcagccctaactat	439994	-	see also 23219 line
52458	MRGD	NM_198923.1	1014	caccgtggcacaatagagatgg	439998	-	see also 23219 line
52459	MRPL10	NM_145255.2	511	aggagatgtacggatotttaagg	413924	-	see also 23220 line
52460	MRPL10	NM_145255.2	432	ggagattccaggtaccacaaatct	413923	-	see also 23220 line
52461	MRPL28	NM_006428.3	459	aggcttatgggtcgacttttac	335545	-	see also 23222 line
52462	MRPL28	NM_006428.3	159	cgccactccgtgcactatagg	335541	-	see also 23222 line
52463	MRPL28	NM_006428.3	460	ggcttatgggtcgacttttaca	335546	-	see also 23222 line
52464	MRPL38	NM_032478.2	730	ggcggacctaccgagagtatttc	400352	-	see also 9212 line
52465	MRPL38	NM_032478.2	731	gggacctaccgagagtatttcg	400353	-	see also 9212 line
52466	MRPL45	NM_032351.3	831	cggattggcgggttatgtatgg	399882	-	see also 23224 line
52467	MRPL45	NM_032351.3	830	ccggtttggcgggttatgtatg	399881	-	see also 23224 line
52468	MRPL52	NM_178336.1	375	aagagccacttcccaagtcaata	430713	-	see also 23225 line
52469	MRPL53	NM_053050.2	200	ctgtcccttgagaaaacatgg	405852	-	see also 23226 line
52470	MRPL53	NM_053050.2	164	tgtctcggcgtctgaacacagg	405851	-	see also 23226 line
52471	MRPL54	NM_172251.1	240	tgccatggcggtcaacatata	424404	-	see also 23227 line
52472	MRPL55	NM_181441.1	340	gtgcaccgccagcttatgcacg	432133	-	see also 23228 line
52473	MRPS9	NM_182640.1	710	ttcgctgctagaaaagtattg	434842	-	see also 23229 line
52474	MRPS9	NM_182640.1	223	aacgttccactcaaacatgga	434824	-	see also 23229 line
52475	MS4A12	NM_017716.1	739	aacacacacacacaaatattctgt	361143	-	see also 23230 line
52476	MS4A12	NM_017716.1	595	ctgtgtgatatgtgcataatgg	361141	-	see also 23230 line
52477	MS4A3	NM_006138.3	572	gtcacccggacctatgcattaca	334869	-	see also 23231 line
52478	MS4A3	NM_006138.3	574	caaccggacctatgcattacaatg	334870	-	see also 23231 line
52479	MSL3L1	NM_006800.2	977	ccagtcgcgctttgtgaatcc	336369	-	transcription_regulat
52480	MSL3L1	NM_006800.2	976	tccagtcgcgctttgtgaatc	336368	-	or
52481	MSL3L1	NM_006800.2	899	aaggctgactctgctaaatttt	336365	-	see also 52479 line
52482	MTBP	NM_022045.2	1823	gtccctgggacctcaatcacattg	381734	-	see also 8246 line
52483	MTBP	NM_022045.2	2240	ccgattgaacaggagatctaaa	381752	-	see also 8246 line
52484	MTMR9	NM_015458.3	566	cgccatcgacaagcgatttttag	353239	-	see also 6422 line
52485	MTMR9	NM_015458.3	567	ggccatcgacaagcgatttttag	353240	-	see also 6422 line
52486	MTMR9	NM_015458.3	1463	cgagaccattcggttttaggg	353273	-	see also 6422 line
52487	MUC13	NM_033049.1	993	gaccctcgtgtgattattg	402725	-	see also 23234 line
52488	MUC13	NM_033049.1	567	tccctgtgcagataattcgttat	402714	-	see also 23234 line
52489	MUC15	NM_145650.2	1180	tgcacccggaaccttatgtga	414621	-	see also 9792 line
52490	MUC15	NM_145650.2	1126	ttccatcgcgaccttatgacg	414617	-	see also 9792 line
52491	MUC15	NM_145650.2	1175	gacaatgcacaggaaccttatga	414620	-	see also 9792 line
52492	MUC20	NM_152673.1	983	caccaagtacgtcaaatgctca	419568	-	see also 23236 line
52493	MUC20	NM_152673.1	184	cacgcgcgtctggaaactcaaac	419564	-	see also 23236 line

1384

図46 (続き)

52494	MUC7	NM_152291.1	248	caccagaagccgttoattagaaa	415389	-	see also 23237 line
52495	MUC7	NM_152291.1	1004	gcccacattaccacctaattc	415397	-	see also 23237 line
52496	MUF1	NM_006369.3	1111	gagatgaagggtccctctattg	335360	-	see also 23238 line
52497	MUF1	NM_006369.3	2689	aggcttcgcagattatgtatgo	335377	-	see also 23238 line
52498	MXD3	NM_031300.2	222	ggcgggtcagtgacacataaact	396591	-	see also 23239 line
52499	my048	NM_080390.2	604	ctcagtaacctcaagcaataaag	406373	-	see also 23240 line
52500	my048	NM_080390.2	200	ttcgaatcaaggaaagatagaca	406370	-	see also 23240 line
52501	my048	NM_080390.2	684	atggctaggggtggagataaag	406374	-	see also 23240 line
52502	MYCT1	NM_025107.1	635	gtcttcagtgaggctttcaaca	393675	-	see also 23241 line
52503	MYCT1	NM_025107.1	137	tgatattatgctaataacaca	393668	-	see also 23241 line
52504	MYH14	NM_024729.2	1290	ttgtcaccctcgcatacaaaagt	389721	-	see also 23242 line
52505	MYH14	NM_024729.2	418	acotcggagagcgggtactactcc	389719	-	see also 23242 line
52506	MYOZ1	NM_021245.2	665	agctggtaagggtattctataca	380886	-	see also 23243 line
52507	MYOZ1	NM_021245.2	1152	tccaacaggctcttccaatcg	380890	-	see also 23243 line
52508	MYOZ3	NM_133371.2	322	agctgaactacgcaacaacaga	407192	-	see also 23244 line
52509	MYOZ3	NM_133371.2	763	gcccacacgactaccgaaatttc	407194	-	see also 23244 line
52510	N4BP1	NM_014664.1	2232	aacaaggctgctatctaatgca	341934	-	see also 23245 line
52511	N4BP1	NM_014664.1	2520	aagaagtgaacctcgtattagagg	341947	-	see also 23245 line
52512	NAG73	NM_032570.1	792	cacctcaactaacgtctaatttc	400765	-	see also 23246 line
52513	NAG73	NM_032570.1	555	gtgtgtaactgggaataaagttg	400760	-	see also 23246 line
52514	NALP10	NM_176821.2	594	ccagggccggtttgattatgtct	429822	-	see also 23247 line
52515	NALP10	NM_176821.2	596	cgaggccggtttgattatgtctt	429823	-	see also 23247 line
52516	NALP4	NM_134444.1	2485	aacaagagcgtgcgtctatctaga	407339	-	see also 23248 line
52517	NALP4	NM_134444.1	2740	acggatgcgcttagagattct	407345	-	see also 23248 line
52518	NALP8	NM_176811.2	2506	ttcaaggttaacgggcactctaaag	429670	-	see also 23249 line
52519	NALP8	NM_176811.2	1885	gggtcccgagttattctactgt	429657	-	see also 23249 line
52520	NAPE-	NM_198990.1	1102	tacggacttaacgctgaagattt	440339	-	see also 10351 line
52521	NAPE-	NM_198990.1	497	gtcgttcccgctgcaataaagt	440322	-	see also 10351 line
52522	NAPE-	NM_198990.1	528	tccaatagatgcgctctatca	440326	-	see also 10351 line
52523	NARFL	NM_022493.1	201	ggccaagggtctgcctaaacgact	383493	-	see also 23251 line
52524	NARFL	NM_022493.1	249	ctccgcagagaccgctgcttatca	383494	-	see also 23251 line
52525	NARG2	NM_024611.2	2091	aacctataaacgagatataaa	387937	-	see also 23252 line
52526	NARG2	NM_024611.2	923	gacgatagctaccattgaaac	387892	-	see also 23252 line
52527	NCDN	NM_014284.1	1832	cctcgtctctgtgcaagtattt	340128	-	see also 23253 line
52528	NCDN	NM_014284.1	1126	aacogtgccctgaatgctacc	340123	-	see also 23253 line
52529	NCDN	NM_014284.1	1483	ggccatagggctgtttctcact	340126	-	see also 23253 line
52530	NDE1	NM_017668.1	244	gacgaagtcgaacaattgaaa	360484	-	see also 23254 line
52531	NDE1	NM_017668.1	747	accgaggaccagctcaagtta	360488	-	see also 23254 line
52532	NDEL1	NM_030808.2	1037	agcatcagcaaatcttatatt	395252	-	see also 8953 line
52533	NDEL1	NM_030808.2	1029	aaggaccagcatcacgaaatc	395249	-	see also 8953 line
52534	NDFI1	NM_030571.2	360	gagcgacatattttgactaca	394677	-	see also 23256 line
52535	NDFI1	NM_030571.2	704	ttgtcaggtttccacatttc	394682	-	see also 23256 line
52536	NDNL2	NM_138704.2	834	ccccgtcactacgaattccagt	408669	-	see also 23257 line
52537	NDNL2	NM_138704.2	630	cactacggcctctctgatzatcg	408666	-	see also 23257 line

1385

図46 (続き)

52538	NDUFS7	NM_024407.3	490	ggagctactaccactattctac	386364	-	see also 23258 line
52539	NDUFS7	NM_024407.3	538	tgtgtccctggagacatctacac	386365	-	see also 23258 line
52540	NDUFV3	NM_021075.2	1627	ggcaaatctggagagatcagatac	380512	-	see also 23259 line
52541	NDUFV3	NM_021075.2	1800	tgcctgtgagccgtttgacaac	380516	-	see also 23259 line
52542	NECAB2	NM_019065.2	225	cgcgtggcgacaaaatgatga	374882	-	see also 23260 line
52543	NECAB2	NM_019065.2	319	atctttttcacacgattgactct	374887	-	see also 23260 line
52544	NECAB2	NM_019065.2	224	cgcgcgtggcgacaaaatgatg	374881	-	see also 23260 line
52545	NEDD1	NM_152905.2	750	cagagtcacataccataacttga	421635	-	see also 23261 line
52546	NEDD1	NM_152905.2	658	ctgttcggcacttgaagtactcc	421629	-	see also 23261 line
52547	NEFH	NM_021076.2	1170	cgcacagctcgagataaccagg	380522	-	see also 23262 line
52548	NEFH	NM_021076.2	2570	aagccctccacacacaaaaca	380525	-	see also 23262 line
52549	NEGR1	NM_173808.1	219	ggctgaacccggctcaagtattatt	428167	-	see also 10116 line
52550	NEGR1	NM_173808.1	170	acggcggtgcttaggtgttatt	428162	-	see also 10116 line
52551	NELF	NM_015537.2	237	ggcgggaacgggaggaattgattcc	353757	-	see also 23264 line
52552	NELF	NM_015537.2	570	ctgagtaacatcccatcattatc	353760	-	see also 23264 line
52553	NES	NM_006617.1	888	agcggctcgaggctactgaaaag	335944	-	see also 23265 line
52554	NES	NM_006617.1	2573	agcgtagagagcagtaaatcttt	335972	-	see also 23265 line
52555	NES	NM_006617.1	891	ggctcgaggctactgaaaagttc	335946	-	see also 23265 line
52556	NESH	NM_016428.2	589	gactactcgaggagacactatgt	357447	-	see also 23265 line
52557	NETO1	NM_138986.2	557	acgctttggaggtgcacatttg	409290	-	see also 9647 line
52558	NETO1	NM_138986.2	479	cggggaatgcacatcacatag	409287	-	see also 9647 line
52559	NETO2	NM_018092.3	1224	gtcggcttagcaggtttcgaatg	366607	-	see also 23267 line
52560	NETO2	NM_018092.3	1225	toggcttagcaggtttcgaatgc	366608	-	see also 23267 line
52561	NEUROD2	NM_006160.2	1209	cacggccacgggctagctctcg	334905	-	see also 4263 line
52562	NEUROD2	NM_006160.2	1146	ggccggccacgggagaaaagctacc	334904	-	see also 4263 line
52563	NEUROG2	NM_024019.2	1058	cagggtcagacatggaactattgg	385477	-	see also 23269 line
52564	NEUROG2	NM_024019.2	1022	ccocctacagctgcactttatcg	385476	-	see also 23269 line
52565	NFAM1	NM_145912.3	792	acggcatagattcgaagatgatg	414963	-	see also 23270 line
52566	NFAM1	NM_145912.3	225	ctgcaggatcacctatccataca	414955	-	see also 23270 line
52567	NFKB1B	NM_002503.2	44	gtcggcgttgggaaaagctgc	330985	-	see also 23271 line
52568	NFKB1B	NM_002503.2	991	cggagacggggcgatgaatcag	330990	-	see also 23271 line
52569	NFKB1B	NM_005007.2	974	ggcagcctctggcgatttggga	333365	-	see also 23272 line
52570	NFKB1B	NM_005007.2	471	gtccctcccgcatgggaataaag	333364	-	see also 23272 line
52571	NFKB1B	NM_013432.3	708	agcgaagtctcgtgggttattgc	338911	-	see also 23273 line
52572	NFKB1B	NM_013432.3	2778	cccatccgggttcgagttcaagt	338918	-	see also 23273 line
52573	NFKB1B	NM_006165.2	2084	ctggatggcttactattacgaaa	334946	-	see also 4268 line
52574	NFKB1B	NM_006165.2	1064	atcatgactcagtaaatcgtgg	334931	-	see also 4268 line
52575	NGEF	NM_019850.1	1086	ccgagggcgtcctactacaagagt	375545	-	see also 23275 line
52576	NGEF	NM_019850.1	1618	ggccgcgacggagacagatgatca	375548	-	see also 23275 line
52577	NGLY1	NM_018297.2	967	gtggcgagtgaggccaattgtttt	369923	-	see also 7372 line
52578	NGLY1	NM_018297.2	968	tggcgagtgaggccaattgtttta	369924	-	see also 7372 line
52579	NGX6	NM_016446.2	1726	cagatgcctcactcctatgatttc	357485	-	see also 23277 line
52580	NGX6	NM_016446.2	1337	ctccgtgcccaggaacacgtga	357481	-	see also 23277 line
52581	NHLRC1	NM_198586.2	595	ggcatcgctcctcaatcaaatgttt	439854	-	see also 23278 line

1386

図46 (続き)

52582	NHLRC1	NM_198586.2	458	gaggcgtgtcaagatttttgact	439849	-	see also 23278 line
52583	NHS	NM_198270.2	5010	tgtctccacagtgtaagcaga	437374	-	see also 23279 line
52584	NHS	NM_198270.2	5125	tccgtctcggctgtgtacaatcag	437376	-	see also 23279 line
52585	NICE-3	NM_015449.1	470	gocggcatcccgcttcttaag	353083	-	see also 23280 line
52586	NICE-3	NM_015449.1	393	aagttgtcaaacatctgtata	353080	-	see also 23280 line
52587	NICN1	NM_032316.2	340	atcgtgttaagcatcagatgc	399700	-	see also 23281 line
52588	NICN1	NM_032316.2	382	atcggagctacgcgtattctgc	399701	-	see also 23281 line
52589	NIF3L1	NM_021824.1	840	ttccgggaacaacaactttatc	381084	-	see also 23282 line
52590	NIF3L1	NM_021824.1	665	accgagtagaattcaacgttaac	381074	-	see also 23282 line
52591	NIF3L1	NM_021824.1	841	ttccgggaacaacaactttatc	381085	-	see also 23282 line
52592	NIF3L1BP	NM_025075.1	529	gagacgggaacacagtttcatttc	393503	-	see also 8849 line
52593	NIPA	NM_016478.2	591	tagtgaattcttagatcttttc	357715	-	see also 23283 line
52594	NIPA	NM_016478.2	653	ggcgggagagactgaaactatg	357717	-	see also 23283 line
52595	NIPA	NM_016478.2	162	cccgcttgaggctctctatgaat	357702	-	see also 23283 line
52596	NIPA2	NM_030922.2	429	aaggtggccatgcatacttaag	395458	-	see also 23284 line
52597	NIPA2	NM_030922.2	430	aggtggccatgcatacttaag	395459	-	see also 23284 line
52598	NIPSNAP1	NM_003634.1	471	aagatccagtttcaaatgtata	331851	-	see also 2452 line
52599	NIPSNAP1	NM_003634.1	381	tggttcggctccctctttgttca	331849	-	see also 2452 line
52600	A	NM_015469.1	606	ggcagttcatgctcatgcaatc	353414	-	-
52601	A	NM_015469.1	538	gtctatgaactaggccacttttca	353413	-	see also 52600 line
52602	B	NM_018376.2	221	tgcgttcattggaaaaatcttaaga	370918	-	see also 23286 line
52603	B	NM_018376.2	220	atgctgttcattggaaaaatcttaag	370917	-	see also 23286 line
52604	NJMU-R1	NM_022344.1	303	ttcattgtctaagcgtctttcaag	382607	-	see also 23287 line
52605	NJMU-R1	NM_022344.1	443	aacgtagactctgaacgttaac	382611	-	see also 23287 line
52606	NKAP	NM_024528.1	717	aagaagtcagcgttcaaaaaga	386707	-	see also 23288 line
52607	NKAP	NM_024528.1	1258	ctgtgcgactgcgaaagagaac	386712	-	see also 23288 line
52608	NKAP	NM_024528.1	1256	ggctgtgcgactgcgaaagaga	386711	-	see also 23288 line
52609	NKD2	NM_033120.2	383	gacgttcacgtctatgactttg	403371	-	see also 23289 line
52610	NKD2	NM_033120.2	384	acgttcacgtctatgactttga	403372	-	see also 23289 line
52611	NLGN1	NM_014932.2	2090	ttcctcaagaacacgaattcaatt	346023	-	see also 6115 line
52612	NLGN1	NM_014932.2	1859	ttgttcacgtctatgactttat	346015	-	see also 6115 line
52613	NMES1	NM_032413.2	350	gtgatccttgatcgaaaaaaa	400207	-	-
52614	NOB1P	NM_014062.1	203	gtgacgttggtgactgagtttc	339504	-	see also 23292 line
52615	NOB1P	NM_014062.1	310	tggaggtgtctacactaaacaag	339507	-	see also 23292 line
52616	NOB1P	NM_014062.1	311	gggggtgtctacactaaacaaga	339508	-	see also 23292 line
52617	NOD9	NM_024618.2	394	accaggaagctcgtatagatgc	388057	-	see also 23293 line
52618	NOD9	NM_024618.2	2618	ggcaggtgttgcgtgcttaagg	388066	-	see also 23293 line
52619	NOL6	NM_022917.4	611	ctgcatccgaccagacatcaatg	384865	-	see also 23294 line
52620	NOL6	NM_022917.4	1923	atgtccacgaagcgccttattcc	384876	-	see also 23294 line
52621	NOPE	NM_020962.1	2179	cagatctctgggtacaaactata	380302	-	see also 23295 line

図46 (続き)

1387

52622	NOPE	NM_020982.1	3365	aagccgggagtoactccaaaaga	380313	-	see also 23295 line
52623	NOR1	NM_145047.2	1000	cgattccgggtgaatctotta	413166	-	see also 23296 line
52624	NOR1	NM_145047.2	593	atccgagtatccatgtttctaaa	413156	-	see also 23296 line
52625	NOSIP	NM_015953.3	231	ggctatggagcccccagaaattcg	355599	-	see also 23297 line
52626	NOSTRIN	NM_052946.2	252	agcaataaaacgcactatacaag	405468	-	see also 9464 line
52627	NOSTRIN	NM_052946.2	1141	aaggagcatactcatagctatgt	405492	-	see also 9464 line
52628	1.Nov	NM_144663.1	595	aactgatgagtggtgttact	411133	-	see also 23299 line
52629	1.Nov	NM_144663.1	523	gaccgcactgattacaacact	411129	-	see also 23299 line
52630	NPDP07	NM_020684.2	805	gaggatattccgtttoaagtacg	377974	-	see also 23300 line
52631	NPDP07	NM_020684.2	318	caggctggttaacctacatcttg	377965	-	see also 23300 line
52632	NPHP3	NM_153240.3	2883	gaggacaacatgagttgcttagc	422535	-	see also 23301 line
52633	NPHP3	NM_153240.3	1605	taccaacgccttaatatgtatgt	422495	-	see also 23301 line
52634	NPL	NM_030769.1	585	gacttcgggcaatgtgtgaca	394926	-	see also 23302 line
52635	NPL	NM_030769.1	483	gcttgacaggggtaagattcg	394924	-	see also 23302 line
52636	NPL	NM_030769.1	90	atcacgcaatgactgagaatgg	394914	-	see also 23302 line
52637	NPL4	NM_017921.1	567	gcatctgagggagactatctaa	363999	-	see also 23303 line
52638	NPL4	NM_017921.1	1102	accgtccgctacagtcgaataa	364011	-	see also 23303 line
52639	NPL4	NM_017921.1	556	gtccctctagagccattcgatga	363998	-	see also 23303 line
52640	NPR2L	NM_006545.3	159	ggctgcgcacatcgatcatatt	335733	-	see also 23304 line
52641	NPR2L	NM_006545.3	163	gcgcattgaatgcatactcttc	335735	-	see also 23304 line
52642	NRAP	NM_006175.2	1141	caagaactcgtctgtagacataa	334995	-	see also 23305 line
52643	NRAP	NM_006175.2	3132	cagtgagacgcggttataagaat	335056	-	see also 23305 line
52644	NRCAM	NM_005010.1	1999	atcgttaaacagcccggaatatgc	333426	-	see also 3503 line
52645	NRCAM	NM_005010.1	1050	cgcgaagactatattgtgttg	333393	-	see also 3503 line
52646	NRPS98	NM_181806.1	1361	tcccgatggagctgtgtgtatgc	433579	-	see also 10254 line
52647	NRPS98	NM_181806.1	435	tacaggagataccgaagtgttca	433537	-	see also 10254 line
52648	NS	NM_014366.3	781	gcattcgggtggagtaattgg	340378	-	see also 23308 line
52649	NS	NM_014366.3	60	gacctgcataaagcgggtataaaa	340361	-	see also 23308 line
52650	NS	NM_014366.3	61	acctgccataagcgggtataaat	340362	-	see also 23308 line
52651	NS3TP2	NM_023927.1	702	ctcggtaacccttaataaagaaa	385408	-	see also 8553 line
52652	NS5ATP13	NM_178507.2	593	gccaaagctcggcagaaaaatcc	430945	-	-
52653	TP2	NM_178507.2	915	acctcgtcatgctoaagtactgc	430946	-	see also 52652 line
52654	NSE1	NM_145175.1	298	gggaacccgtcggggattgaaaaag	413752	-	see also 9776 line
52655	NSE1	NM_145175.1	297	ggggacccgtcggggattgaaaa	413751	-	see also 9776 line
52656	NSFL1C	NM_016143.3	1968	gactacttcccgaaacaaagagc	356455	-	see also 6693 line
52657	NSPC1	NM_032673.1	469	gccactactatcgtctatgata	401207	-	see also 23311 line
52658	NSPC1	NM_032673.1	612	gtgtcaaccgcttgatgctaaacc	401209	-	see also 23311 line
52659	NT5C2L1	NM_152729.2	1053	ttccagctcgtcactatagtaa	420160	-	see also 23312 line
52660	NT5C2L1	NM_152729.2	1054	ttccagctcgtcactatagtaa	420161	-	see also 23312 line
52661	NUDT12	NM_031438.2	414	ttggttctaacgaatgaagtgg	396973	-	see also 23313 line
52662	NUDT12	NM_031438.2	921	ctggcacagtcgacataagttt	396993	-	see also 23313 line
52663	NUDT13	NM_015901.3	761	ttctggctcccccctaagttagc	355404	-	see also 23314 line

図46 (続き)

1388

52664	NUDT13	NM_015901.3	261	ccggcacacgcctgttagagtg	355389	-	see also 23314 line
52665	NUDT14	NM_177533.2	201	gcgtgacccgtctcttattcaac	430275	-	see also 23315 line
52666	NUDT14	NM_177533.2	254	cagttccggccagctgtgtatgc	430276	-	see also 23315 line
52667	NUDT15	NM_018283.1	583	ttctggagactgcgtgttttaaa	369693	-	see also 23316 line
52668	NUDT15	NM_018283.1	585	ctggggactgcgtgttttaaaag	369694	-	see also 23316 line
52669	NUDT8	NM_181843.1	320	ggcctgctggcgcgtgtgtatga	433805	-	see also 23317 line
52670	NUPI33	NM_018230.2	2409	ggcatccgaacaggttaataacg	368842	-	see also 23318 line
52671	NUPI33	NM_018230.2	2223	ttggaggatcacctatgattgc	368833	-	see also 23318 line
52672	NUP210	NM_024923.2	4673	gggatacctggacgggttactatg	392288	-	see also 8807 line
52673	NUP210	NM_024923.2	4672	tgggatccgtgacgggttactat	392257	-	see also 8807 line
52674	NUPL1	NM_014089.2	477	caccattgctctaacctattacc	339538	-	see also 5488 line
52675	NUPL1	NM_014089.2	1000	gtcgtggctgccaatggaatac	339552	-	see also 5488 line
52676	NURIT	NM_152719.1	257	ccggaggtcccaacttgtaca	420076	-	see also 23321 line
52677	NURIT	NM_152719.1	118	aactctgcataggacctatacc	420072	-	see also 23321 line
52678	NURIT	NM_152719.1	256	tccgaggtcccaacttgtac	420075	-	see also 23321 line
52679	NX17	NM_020665.2	487	atgtaacccagaggggttatc	377885	-	see also 23322 line
52680	NX17	NM_020665.2	870	aaggaggggcatatattatgac	377899	-	see also 23322 line
52681	NXN	NM_022463.3	891	aaccggctgacggaatccaagg	382993	-	see also 23323 line
52682	NXN	NM_022463.3	1226	gactgaactccctgcgagattaca	382997	-	see also 23323 line
52683	NXPH1	NM_152745.1	1237	ttgttaaacggggcaagtttaag	420423	-	see also 23324 line
52684	NXPH1	NM_152745.1	1421	tacaaaatgtggaatttgact	420432	-	see also 23324 line
52685	NXPH1	NM_152745.1	1445	ggcacaacaacccgtgattgatg	420433	-	see also 23324 line
52686	NY-REN-41	NM_080654.1	683	tactattactcttaccatag	406529	-	-
52687	NY-REN-41	NM_080654.1	186	tgccgctgagctgcagcaattcc	406526	-	see also 52686 line
52688	NY-REN-41	NM_080654.1	461	gtgtggtttattggcaagaaaa	406528	-	see also 52686 line
52689	NY-REN-58	NM_016122.1	920	cagcaaacgagtggaacaacttg	356299	-	see also 6676 line
52690	NYD-SP12	NM_031955.2	1092	ctgaattctctcggttatgtac	397509	-	see also 9060 line
52691	NYD-SP12	NM_031955.2	163	tgcaatgaatgagatctatcatg	397493	-	see also 9060 line
52692	NYD-SP14	NM_031956.1	1017	tacttgggtcttagcacacttagc	397535	-	see also 23327 line
52693	NYD-SP14	NM_031956.1	396	atgctgcgagatgggttatcataa	397526	-	see also 23327 line
52694	NYD-SP17	NM_032600.2	692	tgctccagatatactgtctaga	401107	-	see also 23328 line
52695	NYD-SP17	NM_032600.2	697	cagcatatactgtctagagattc	401108	-	see also 23328 line
52696	NYD-SP18	NM_032599.1	620	ctggatccgactgggttcaaatc	401083	-	see also 23329 line
52697	NYD-SP18	NM_032599.1	228	ctctgcgggttggttcttcttc	401080	-	see also 23329 line
52698	NYD-SP20	NM_032598.2	986	atgaagtatttggtggaacatgc	401065	-	see also 23330 line
52699	NYD-SP20	NM_032598.2	1063	acctggccatattattcgaaga	401068	-	see also 23330 line
52700	NYD-SP21	NM_032597.2	102	gggcaactcacgtcatcactata	400991	-	see also 23331 line
52701	NYD-SP21	NM_032597.2	110	cacgtcatcactataaaccaaa	400993	-	see also 23331 line
52702	NYD-SP26	NM_033122.2	1015	ttcgtgtccctgcatactagc	403455	-	see also 23332 line
52703	NYD-SP26	NM_033122.2	360	ctccataacaagagactctatta	403439	-	see also 23332 line

1389

図46 (続き)

52704	NYD-SP28	NM_033124.2	1061	acgggtatocgtaataacaaag	403482	-	see also 23333 line
52705	NYD-SP28	NM_033124.2	1062	ccgggtatocgtaataacaaagg	403483	-	see also 23333 line
52706	NYD-SP29	NM_145172.1	1402	tcggagtgatcctaataatttg	413678	-	see also 23334 line
52707	NYD-SP29	NM_145172.1	1397	ttctgcgcagtgatcctaataat	413676	-	see also 23334 line
52708	NYD-SP29	NM_145172.1	1252	agccgtgcgcagcttctttgaag	413669	-	see also 23334 line
52709	NYD-TSP1	NM_032567.2	847	gtccttaacgaacactcaacaaag	400743	-	see also 23335 line
52710	NYD-TSP1	NM_032567.2	793	aacacgcacaaagtcttgcagag	400741	-	see also 23335 line
52711	NYD-TSP1	NM_032567.2	1118	aactgagcactgacacactattca	400750	-	see also 23335 line
52712	OAZ	NM_015089.1	1878	gaccacgtgcacccactatgtgt	347735	-	see also 6220 line
52713	OAZ	NM_015089.1	2910	ttccacgcttgagctcaagatcc	347740	-	see also 6220 line
52714	OCIA	NM_017830.1	330	atgttgattactcaaggattaat	362849	-	see also 7158 line
52715	OCIA	NM_017830.1	541	ctggcacattatacaaaagtoa	362857	-	see also 7158 line
52716	OCSP	NM_031945.2	301	ctgcgtcaagtattctgatttcc	397465	-	see also 23338 line
52717	OCSP	NM_031945.2	293	gggagcagctggcgtcaagtatct	397463	-	see also 23338 line
52718	ODF3	NM_053280.3	392	caccaacacagagcttcatgaag	405964	-	see also 23339 line
52719	ODF3	NM_053280.3	502	tacaatgtaaaccccaagatact	405966	-	see also 23339 line
52720	ODF4	NM_153007.3	764	cactgcgcgatcctttgctact	421806	-	see also 23340 line
52721	ODF4	NM_153007.3	452	tgcccttactactatttgta	421801	-	see also 23340 line
52722	ODF4	NM_153007.3	770	cgcgatccttgctacttcaacc	421807	-	see also 23340 line
52723	OFCC1	NM_153003.1	433	atgaagatagaattttctataat	421787	-	see also 23341 line
52724	OFCC1	NM_153003.1	440	tagaattttctataatgatata	421789	-	see also 23341 line
52725	OKL38	NM_013370.2	1169	cagggaactacgttggtcaagaagg	338850	-	see also 23342 line
52726	OKL38	NM_013370.2	1192	gtctggagcacaacttctgtctc	338852	-	see also 23342 line
52727	OLIG3	NM_175747.2	854	gctcccccactgcctgactcaagg	429271	-	see also 23343 line
52728	OLIG3	NM_175747.2	659	ggagctgttggtcgagatctatg	429269	-	see also 23343 line
52729	OR1D2	NM_013936.2	670	ttctcaagaccgttcttcttag	338981	-	see also 23344 line
52730	OR1D2	NM_013936.2	833	ctgtggtcactcctgactactaac	338984	-	see also 23344 line
52731	OR2B2	NM_033057.1	99	ttctatatcttgacaactctttg	402741	-	see also 23345 line
52732	OR2B2	NM_033057.1	450	tagtggctttagcaatcaagtat	402745	-	see also 23345 line
52733	OR2C3	NM_198074.1	899	ggcgcctccgggcacatggtat	436969	-	see also 23346 line
52734	OR2C3	NM_198074.1	289	gggtgtggtccaggtctctatat	436961	-	see also 23346 line
52735	OR2F1	NM_012369.1	756	tggtgtggccattttcattaca	338102	-	see also 23347 line
52736	OR2F1	NM_012369.1	755	atggtgtggccattttcattac	338101	-	see also 23347 line
52737	OR2F1	NM_012369.1	758	gtgtggccattttcattacatc	338103	-	see also 23347 line
52738	OR2S2	NM_019897.1	594	aggagtcocgggtctgtctatct	375554	-	see also 23348 line
52739	OR2S2	NM_019897.1	596	gggtcccggttctgtctatctct	375555	-	see also 23348 line
52740	OR3A3	NM_012373.1	842	agggggttgggggttttctgact	338107	-	see also 23349 line
52741	OR3A3	NM_012373.1	809	ggctgggttcagtggaatttcca	338106	-	see also 23349 line
52742	OR51B2	NM_033180.1	219	gaccacgatgcctacttaattgg	403544	-	see also 23350 line
52743	OR51B2	NM_033180.1	370	atccgcaactcttgagatatgc	403547	-	see also 23350 line
52744	OR7C2	NM_012377.1	667	ttctccgtcctaagagatctgc	338112	-	see also 23351 line
52745	OR7C2	NM_012377.1	664	ttctctcgtcctaagagatctc	338111	-	see also 23351 line
52746	ORAOV1	NM_153451.1	497	cagaagggtccggactttctttt	423270	-	see also 23352 line
52747	ORAOV1	NM_153451.1	500	aagggtccggactttcttttga	423271	-	see also 23352 line

1390

図46 (続き)

52748	ORAOV2	NM_018043.4	800	accggagcagcagttgttatga	365741	-	see also 23353 line
52749	ORAOV2	NM_018043.4	516	tcacaggatcgggttttgaaa	365735	-	see also 23353 line
52750	ORAOV2	NM_018043.4	495	aggggacagcagcactaaaac	365733	-	see also 23353 line
52751	ORMDL2	NM_014182.3	165	atccataacctggctacagtgt	339942	-	see also 5530 line
52752	ORMDL2	NM_014182.3	36	cccaacaccggatgatgaatg	339939	-	see also 5530 line
52753	ORMDL3	NM_139280.1	567	cacgggtccggatttttggaa	409612	-	see also 23355 line
52754	ORMDL3	NM_139280.1	425	cacggcctcggaaagtctga	409609	-	see also 23355 line
52755	ORMDL3	NM_139280.1	564	ctccacgggtccggattttgg	409611	-	see also 23355 line
52756	OSAP	NM_032623.2	824	ggcattaggtttctgataagtc	401146	-	see also 9262 line
52757	OSAP	NM_032623.2	158	cgccggatctcatcaacagatt	401130	-	see also 9262 line
52758	OSRF	NM_012382.1	370	tgctaccctatacagatgaat	338119	-	see also 23357 line
52759	OSRF	NM_012382.1	212	tgcttcatgccattaaacgtag	338113	-	see also 23357 line
52760	OSTalpha	NM_152672.2	983	gaccacaaggttgggtatgaac	419562	-	-
52761	OSTalpha	NM_152672.2	949	gactgtctgacacgaatgtact	419561	-	see also 52760 line
52762	OSTalpha	NM_152672.2	623	ctcgtcccgacggcatatga	419559	-	see also 52760 line
52763	OSTbeta	NM_178859.2	159	ggcagctgtgtggtcattataa	432018	-	see also 23358 line
52764	OSTbeta	NM_178859.2	129	atctccctgggaatcattccatc	432016	-	see also 23358 line
52765	OSTM1	NM_014028.2	870	aactatggatcgcaacttcaac	339332	-	see also 23359 line
52766	OSTM1	NM_014028.2	740	tgccgtgaagcatcaaaaactct	339329	-	see also 23359 line
52767	OSTM1	NM_014028.2	657	ccctgacctgttgaaacataac	339325	-	see also 23359 line
52768	OTOA	NM_144672.2	1213	gtcggatcgagttaggttga	411252	-	see also 9728 line
52769	OTOA	NM_144672.2	1839	cacctatcaggttaattgttg	411261	-	see also 9728 line
52770	OTOA	NM_144672.2	1751	ggcgtgaactgctcacacattga	411260	-	see also 9728 line
52771	OTOP1	NM_177998.1	425	ggctcgggtgtagtaccattg	430351	-	see also 10176 line
52772	OTOP1	NM_177998.1	428	tgccgggtgtagtaccattgttt	430352	-	see also 10176 line
52773	OTOP2	NM_178160.1	801	cagggtactctcacctatctc	430533	-	see also 23362 line
52774	OTOP2	NM_178160.1	1219	tggttcagtagcgcactctctac	430537	-	see also 23362 line
52775	OTOP3	NM_178233.1	1641	tgccatacacccggagtttgaga	430637	-	see also 23363 line
52776	OTOP3	NM_178233.1	837	tgccaccgggtggaagcttcc	430630	-	see also 23363 line
52777	OTP	NM_032109.2	175	cgccaggctaggtatgaagatg	397755	-	see also 9074 line
52778	OTP	NM_032109.2	176	ggcaggtaggtatgaagatgc	397756	-	see also 9074 line
52779	OTP	NM_032109.2	173	ggcgcaggtaggtatgaagaa	397754	-	see also 9074 line
52780	OVCA2	NM_080822.1	241	ggcgtttctccgcatttgaaga	406786	-	see also 23364 line
52781	OVCH1	NM_183378.1	2837	tacgaggtgcaattgataaagc	435811	-	see also 23365 line
52782	OVCH1	NM_183378.1	2370	ggcgtggaagccgggtgtattg	435801	-	see also 23365 line
52783	OVCH1	NM_198185.1	728	cactcatgtccggaataaagaa	437207	-	see also 23366 line
52784	OVCH1	NM_198185.1	983	cagaagcctccaccatttat	437213	-	see also 23366 line
52785	RHO-GEF	NM_015318.1	259	ctcaaaacacagagtcatttt	351469	-	see also 23367 line
52786	RHO-GEF	NM_015318.1	1157	atcaggcgcttgaagatattcc	351487	-	see also 23367 line
52787	RHO-GEF	NM_015318.1	714	aagtacggtgtgtttgtatgg	351480	-	see also 23367 line
52788	p25	NM_007030.1	400	ctcgccaagaagcgaattcaaga	336880	-	see also 23368 line

図46 (続き)

1391

52789	p25	NM_007030.1	325	atcgtcttcacgaagatcaaaagg	336879	-	see also 23368 line
52790	p30	NM_181716.1	650	aggagactgagcacataacgact	432990	-	see also 23369 line
52791	p30	NM_181716.1	721	ggcgttcagagcttctactcc	432995	-	see also 23369 line
52792	P38IP	NM_017569.2	1439	tgtccacagatgataattcaaa	359161	-	see also 7036 line
52793	P38IP	NM_017569.2	1491	ctgagagggtagtcaatcagtag	359164	-	see also 7036 line
52794	P518	NM_198180.1	8	ggccttaacccctgatctcttc	437179	-	see also 23371 line
52795	P518	NM_198180.1	9	gcttaacccctgatctcttc	437180	-	see also 23371 line
52796	P5326	NM_031450.2	755	cactacaagcctgatgtctaca	397058	-	see also 23372 line
52797	P5326	NM_031450.2	655	ggcgcacagctcatctgtttac	397057	-	see also 23372 line
52798	PACAP	NM_016459.2	871	ttccctctggactcaataaaa	357581	-	see also 23373 line
52799	PACAP	NM_016459.2	872	ttccctctggactcaataaaa	357582	-	see also 23373 line
52800	PACRG	NM_152410.1	959	ctcggagacggcattgactaca	416436	-	see also 23374 line
52801	PACRG	NM_152410.1	666	cagctcattcccgataaaaa	416434	-	see also 23374 line
52802	PACRG	NM_152410.1	1038	ggcgcctacggaggagaaatgc	416437	-	see also 23374 line
52803	PAF53	NM_022490.1	912	accgcagcccgatgcatatgg	383471	-	see also 23375 line
52804	PAF53	NM_022490.1	911	gaccgcagcccgatgcatatg	383470	-	see also 23375 line
52805	PAIP2	NM_016480.2	508	ctggggtagagtagcggaatatt	357735	-	see also 6873 line
52806	PAIP2	NM_016480.2	510	ggggtagagtagcggaatattg	357737	-	see also 6873 line
52807	PAK1P1	NM_017906.1	492	ccctctcgggtgtagacataaa	363811	-	see also 23377 line
52808	PAK1P1	NM_017906.1	1098	aagaaaaagggtcaaacctaac	363827	-	see also 23377 line
52809	PALM1	NM_053016.1	697	caggaggacccagtagaataat	405785	-	see also 9481 line
52810	PALM2	NM_053016.1	1118	gacggagcgtgtccactattgac	405796	-	see also 9481 line
52811	PALMD	NM_017734.2	1269	tcccgatcagtgatgtaacaag	361289	-	see also 23379 line
52812	PALMD	NM_017734.2	1514	cagaacccggtgacaatgatttc	361300	-	see also 23379 line
52813	PALMD	NM_017734.2	1300	aagcttcacaccccgcaaaaaag	361291	-	see also 23379 line
52814	PAN3	NM_175854.4	1647	tgggtctcgattttactcaat	429348	-	see also 10154 line
52815	PAN3	NM_175854.4	596	gtggagacgacttactctatata	429306	-	see also 10154 line
52816	PAQR9	NM_198504.1	899	agccgggtttttgacattatc	438746	-	see also 10333 line
52817	PBF	NM_018660.1	1129	gacgaaccagctccacgaaaaag	372385	-	see also 23382 line
52818	PBF	NM_018660.1	1704	agcacctcgcatgaaatctcatc	372389	-	see also 23382 line
52819	PBOV1	NM_021635.1	235	taccattctgtacaaggatttt	380933	-	see also 23383 line
52820	PBOV1	NM_021635.1	243	tgctacaagggtatttcgaaaaa	380935	-	see also 23383 line
52821	PCNX	NM_014982.1	2065	gggatgttcgacctaataattct	346599	-	see also 6164 line
52822	PCNX	NM_014982.1	2168	aagccgacataggacatatttt	346603	-	see also 6164 line
52823	PD2	NM_019088.1	620	tgcgaaaagacagagtagacatcc	375141	-	see also 7702 line
52824	PD2	NM_019088.1	1209	aaccagggtccgccttagtaagc	375152	-	see also 7702 line
52825	PD2	NM_019088.1	920	cagtatactctgaaaaacgtatt	337226	-	see also 23386 line
52826	PD2	NM_019088.1	641	tcgtatggcagctgatgtag	337213	-	see also 23386 line
52827	PD2	NM_014456.3	490	ggcgccttagaagtgtgattaac	340701	-	see also 5683 line
52828	PD2	NM_014456.3	1134	ggctaccgtgtcttgatgt	340718	-	see also 5683 line
52829	PD2	NM_005707.1	944	ggcgcgtgtagcgtactatctga	334182	-	see also 3960 line
52830	PD2	NM_005707.1	1330	gctttccgcagcagttattatcc	334194	-	see also 3960 line
52831	PDIP38	NM_015584.2	259	accgaccagaggcaaaagtgtg	354327	-	see also 6497 line
52832	PDIP38	NM_015584.2	1089	ggcacgttccgcttgaagacc	354342	-	see also 6497 line

図46 (続き)

1392

52833	PEGASUS	NM_022466.2	556	aagtgcggtactgcaactatgc	383005	-	see also 23390 line
52834	PEGASUS	NM_022466.2	932	aaccagactacottaacgatttt	383017	-	see also 23390 line
52835	PEL1	NM_020651.2	4949	aaccatgggtatcttaactgc	377876	-	see also 7907 line
52836	PEL1	NM_021255.1	249	ctcgggtacaaatgtctttacc	380907	-	see also 23392 line
52837	PEL1	NM_021255.1	988	aagccctcgcgcaggagattaac	380920	-	see also 23392 line
52838	PEN2	NM_172341.1	222	gtccaatgaggagaaattgaacc	424405	-	-
52839	PEPP3	NM_014935.2	1391	cccggatgattacgactacc	346100	-	see also 6118 line
52840	PEPP3	NM_014935.2	1772	acctgcagtgaggacatctatg	346106	-	see also 6118 line
52841	PERQ1	NM_022574.2	2203	gggtggcccatcgcaaaaaga	383587	-	see also 23394 line
52842	PERQ1	NM_022574.2	2205	gtcggcccatcgcaaaaagacg	383588	-	see also 23394 line
52843	PERQ1	NM_022574.2	2380	cccttatgatgtccacattata	383589	-	see also 23394 line
52844	PEX11G	NM_080662.2	190	acacattggcactctttgatga	406590	-	see also 23395 line
52845	PEX11G	NM_080662.2	189	gaccatttgcgactctttgatg	406589	-	see also 23395 line
52846	PEX26	NM_017929.2	931	ctcgggtaggccactctttttct	364274	-	see also 23396 line
52847	PEX26	NM_017929.2	1074	atccggaaaggctgctttttctcg	364278	-	see also 23396 line
52848	PEX26	NM_017929.2	1071	tggatccggaaaggctgcttttc	364277	-	see also 23396 line
52849	PEX5R	NM_016559.1	416	aggccagtaacatccaatcaagc	358115	-	see also 23397 line
52850	PEX5R	NM_016559.1	878	cgctggggaaggcgcatcttctc	358127	-	see also 23397 line
52851	PF20	NM_024532.2	714	acgcataataagggtttacatg	386799	-	see also 23398 line
52852	PF20	NM_024532.2	1875	ttctcagacagggagagattctct	386834	-	see also 23398 line
52853	PF20	NM_024532.2	1258	ggcgacaaattggctactccaag	386811	-	see also 23398 line
52854	Pfs2	NM_016095.1	564	agcgtcaaccacatgtacaaac	356269	-	see also 23399 line
52855	Pfs2	NM_016095.1	363	tacgaagctctgttaaatcatg	356266	-	see also 23399 line
52856	Pfs2	NM_016095.1	416	tcgggacccctggtcaaggatag	356267	-	see also 23399 line
52857	PGA5	NM_014224.1	717	tgttggaacttgactcttttact	339975	-	see also 23400 line
52858	PGA5	NM_014224.1	696	gagtggcagcgtgtgtatcttg	339973	-	see also 23400 line
52859	PGBD2	NM_170725.1	1772	gactggagagccgcttcgataga	424151	-	see also 23401 line
52860	PGBD2	NM_170725.1	1776	gagagccgcttcgatagattgg	424153	-	see also 23401 line
52861	PGBD4	NM_152595.2	1250	cagtagctcccgacaaaacgagt	418598	-	see also 23402 line
52862	PGBD4	NM_152595.2	877	aggattttcggatggataaat	418585	-	see also 23402 line
52863	PGBD4	NM_152595.2	1258	ccgacaaaacgagtagcatttg	418599	-	see also 23402 line
52864	PGBD5	NM_024554.2	1085	acgcggcagggcaagaactacatc	387212	-	see also 23403 line
52865	PGBD5	NM_024554.2	1086	cgcggcagggcaagaactacatca	387213	-	see also 23403 line
52866	PGSF1	NM_174947.2	416	atcaagggaacgacatcatttg	428774	-	see also 23404 line
52867	PGSF1	NM_174947.2	118	caggttggcggatggacatttc	428772	-	see also 23404 line
52868	PHAX	NM_032177.1	492	atccgagacctacattatttgc	398518	-	see also 23405 line
52869	PHAX	NM_032177.1	488	gacaatccgagacctaactatt	398517	-	see also 23405 line
52870	PHC3	NM_024947.2	849	ctgtcacccggacatcaagtatt	392503	-	see also 8814 line
52871	PHF7	NM_016483.4	1424	gtgtacaatcgaaaagagtttc	357764	-	see also 23407 line
52872	PHF7	NM_016483.4	984	tttgtcttcttattctagtaa	357756	-	see also 23407 line
52873	PHGDHL1	NM_177987.2	1249	cagcgacaaaacgtaactatca	430345	-	see also 23408 line
52874	PHGDHL1	NM_177987.2	1247	gtcagcgcaaaaacgtaactat	430344	-	see also 23408 line
52875	PHLDA3	NM_012396.1	613	cacctaggccctgggtcaagtcca	338132	-	-
52876	PHLDA3	NM_012396.1	615	ccctaggccctgggtcaagttcaag	338133	-	see also 52875 line

図 46 (続き)

1393

52877	PHOSPHO	NM_178500.2	413	ctggctccgctgctctatctagg	430915	-	see also 23409 line
52878	PHYHIP	NM_014759.1	418	cagcccccacagcattgagatca	343158	-	see also 23410 line
52879	PHYHIP	NM_014759.1	1164	tgccctctctggacattgcttgc	343163	-	see also 23410 line
52880	PIB5PA	NM_014422.1	1079	gtggataccacaataatcgtatc	340567	-	see also 23411 line
52881	PIB5PA	NM_014422.1	561	atgcgctaggcccttcaacttc	340562	-	see also 23411 line
52882	PIBF1	NM_006346.1	1301	aacacgatcagctcttagacagg	335274	-	see also 4443 line
52883	PIBF1	NM_006346.1	1675	tccctacgctataggctaatgt	335282	-	see also 4443 line
52884	PIGN	NM_012327.3	829	tggatacgtgggttttggataat	338040	-	see also 5279 line
52885	PIGN	NM_012327.3	752	tgtagtggagaccacagtttata	338033	-	see also 5279 line
52886	PIGT	NM_015937.2	913	accocgaacactacatcagg	355520	-	see also 23414 line
52887	PIGT	NM_015937.2	1513	ctctgattgctctaactacttgg	355525	-	see also 23414 line
52888	PIGT	NM_015937.2	1385	tacaagcagatcctaaccatgg	355523	-	see also 23414 line
52889	PIGW	NM_178517.2	695	atcggaagattagccattataaa	431005	-	see also 10195 line
52890	PIGW	NM_178517.2	932	ggcacacgggttgctctattaaa	431019	-	see also 10195 line
52891	PIGW	NM_178517.2	686	ttcctagaagaaggacgattagc	431004	-	see also 10195 line
52892	PIK3AP1	NM_152309.1	1564	aacgatcggaggtcttctgttcc	415490	-	see also 23416 line
52893	PIK3AP1	NM_152309.1	423	accgttatcagctattatactga	415455	-	see also 23416 line
52894	PIK3AP1	NM_152309.1	1565	acgatcggaggtcttctgttcc	415491	-	see also 23416 line
52895	PIP3AP	NM_019061.2	198	tacgtacgcctcgaggaaattca	374803	-	see also 7685 line
52896	PIP3AP	NM_019061.2	652	ctctaacacgtcttaaacgatta	374812	-	see also 7685 line
52897	PISD	NM_014338.3	538	gtccagaccgctctgaaactgc	340215	-	see also 23418 line
52898	PISD	NM_014338.3	536	atgtccagaccgctctgaaact	340214	-	see also 23418 line
52899	PWIL1	NM_004764.2	1560	ttgatctatacgcgaagaataa	332966	-	see also 3275 line
52900	PWIL1	NM_004764.2	1281	gacttagcgttctatcacagact	332956	-	see also 3275 line
52901	PWIL2	NM_018068.2	1374	aacaatcctacctatcgtattga	366075	-	see also 23420 line
52902	PWIL2	NM_018068.2	923	tgcgtttgagatctattctct	366083	-	see also 23420 line
52903	PWIL2	NM_018068.2	2020	caccggcctgggttgactaaag	366091	-	see also 23420 line
52904	PJA1	NM_022368.2	851	ctctgcgtcgggaatatacgaagc	382720	-	see also 23421 line
52905	PJA1	NM_022368.2	600	gaggatataccccaatgacaatg	382713	-	see also 23421 line
52906	PKD1L3	NM_181536.1	1472	tactaagcgtatactgtaattg	432471	-	see also 10237 line
52907	PKD1L3	NM_181536.1	1476	aagcctaatactgtaattgctcc	432472	-	see also 10237 line
52908	PKHD1L1	NM_177531.2	7510	tccggttggggcgatatacaca	430120	-	see also 10166 line
52909	PKHD1L1	NM_177531.2	7509	ttccggttggggcgatatacaca	430119	-	see also 10166 line
52910	PLAC4	NM_182832.1	175	tcccgctagaggtgtttttaag	435375	-	see also 23424 line
52911	PLAC4	NM_182832.1	294	ctggcctaatacattggtctatat	435378	-	see also 23424 line
52912	PLAC8	NM_016619.1	339	atccctggatctatttggatga	358463	-	see also 23425 line
52913	PLAC8	NM_016619.1	256	gtcaagttcagctgatatgaat	358462	-	see also 23425 line
52914	PLEKHB2	NM_017958.1	152	gtcaggtggcctacactgattatt	364871	-	see also 23426 line
52915	PLEKHB2	NM_017958.1	527	ccggcagaagaactcaagtgtct	364882	-	see also 23426 line
52916	PLVAP	NM_031310.1	244	gccagccgagggcctatacagt	396707	-	see also 23427 line
52917	PLVAP	NM_031310.1	101	ctctcgggctgctggtattacc	396706	-	see also 23427 line
52918	PLVAP	NM_031310.1	637	agctggttgaatgcgtgaaacc	396711	-	see also 23427 line
52919	PMAIP1	NM_021127.1	285	ttccggcagaagaacttgaattc	380529	-	see also 23428 line
52920	PMFBP1	NM_031293.1	2770	taccgaggaatgatcagattat	396557	-	see also 23429 line

図46 (続き)

1394

52921	PMFBP1	NM_031293.1	697	ctgagcaacatcgagttactaga	396534	-	see also 23429 line
52922	PNAS-131	NM_031446.2	597	atgttactagtcaagaatc	397052	-	see also 23430 line
52923	PNAS-131	NM_031446.2	304	aagactccaaagtgtattgtg	397043	-	see also 23430 line
52924	PNAS-4	NM_016076.2	636	gactactcagctcgtatacc	356214	-	see also 23431 line
52925	PNAS-4	NM_016076.2	645	agctcctgtatacccttctaca	356215	-	see also 23431 line
52926	PNLDC1	NM_173516.1	986	tcccaagaagctacagaaattt	425294	-	see also 23432 line
52927	PNLDC1	NM_173516.1	1517	atgtcaggcactcacagaagc	425315	-	see also 23432 line
52928	PNMA2	NM_007257.3	662	accggaaactcgagattctca	337352	-	see also 23433 line
52929	PNMA2	NM_007257.3	664	cggaaactcgagattctcagg	337353	-	see also 23433 line
52930	PNMA5	NM_052926.1	1355	ggagaggtgctctcccaatttc	405357	-	see also 23434 line
52931	PNMA5	NM_052926.1	1600	ggcggctgttagcagtgaaagc	405361	-	see also 23434 line
52932	PODN	NM_153703.2	1473	acctgggctgctcgaatgtcc	423711	-	see also 23435 line
52933	PODN	NM_153703.2	1781	aggagatcttcaggtttaac	423713	-	see also 23435 line
52934	POF1B	NM_024921.2	940	ggcgtaaagtacagatctatat	392173	-	see also 23436 line
52935	POF1B	NM_024921.2	1362	ctctctctgacatacacatc	392183	-	see also 23436 line
52936	POLN	NM_181808.1	538	gacgcgaaggctactaaattc	433679	-	see also 23437 line
52937	POLN	NM_181808.1	903	tgcccggaacgtgtatttcaaa	433690	-	see also 23437 line
52938	POMT1	NM_007171.2	993	atccgggtgctctgtactact	336990	-	see also 4973 line
52939	POMT1	NM_007171.2	1020	ttctacgtccactgtattctagt	336994	-	see also 4973 line
52940	POP5	NM_015918.3	356	aacatgtcagaagttcctaattc	355486	-	see also 23439 line
52941	POP5	NM_015918.3	143	cgccaggggtgcacggaacttcg	355478	-	see also 23439 line
52942	POT1	NM_015450.1	458	acogcttgacatactactaaat	353116	-	see also 23440 line
52943	POT1	NM_015450.1	1102	acgcacatcgagcaaatgagg	353151	-	see also 23440 line
52944	PI1057	NM_031285.1	941	ctgccttgccggtttgttatt	396495	-	see also 23441 line
52945	PI1057	NM_031285.1	673	ggccctctgogttttgtctgt	396490	-	see also 23441 line
52946	PI1201	NM_022152.3	655	atcacgtggtgtgtatccattc	382586	-	see also 23442 line
52947	PI1201	NM_022152.3	603	gggcacatttccagtatatacc	382583	-	see also 23442 line
52948	PP2447	NM_025204.2	875	cggagcgcagctactactaacc	394410	-	see also 23443 line
52949	PP2447	NM_025204.2	363	cagcaagagggcgtgtgaaga	394409	-	see also 23443 line
52950	pp9099	NM_025201.3	1390	ccctgttagtgcggaacattg	394357	-	see also 23444 line
52951	pp9099	NM_025201.3	1391	ccctgttagtgcggaacattgc	394358	-	see also 23444 line
52952	pp9099	NM_025201.3	320	gcgaacacaccgtttatctgc	394349	-	see also 23444 line
52953	PPAN	NM_020230.2	291	tgcaagttcgtgaagaactctgc	376292	-	see also 23445 line
52954	PPAN	NM_020230.2	341	ccctcggggtcacacactttct	376293	-	see also 23445 line
52955	PPFIA3	NM_003660.1	3889	ggcgttcgtccggacattctcc	331962	-	see also 23446 line
52956	PPFIA3	NM_003660.1	3264	ctggtgacgtcgtgaattgtaga	331952	-	see also 23446 line
52957	PPIL5	NM_152329.2	589	ttggatcaccccaaaatttgtt	415687	-	see also 23447 line
52958	PPIL5	NM_152329.2	494	agccactgttcggttaaggagc	415679	-	see also 23447 line
52959	PPIL3	NM_020129.1	226	gtcatcactaccgtaccatata	375610	-	see also 23448 line
52960	PPIL3	NM_020129.1	537	atggccaacggatttacaacttt	375619	-	see also 23448 line
52961	PPN	NM_022825.1	281	cccatcgaggcgtcttctatcc	384255	-	see also 8480 line
52962	PPN	NM_022825.1	1288	ggctacagcaggtacacactgt	384268	-	see also 8480 line
52963	PPPIR12C	NM_017607.1	1019	cgccctctagcagcaaacacaga	359412	-	see also 23450 line
52964	PPPIR12C	NM_017607.1	1412	agctccgtcttgcagaattacc	359414	-	see also 23450 line

1395

図46 (続き)

52965	PPPIR14A	NM_033256.1	406	ggcagatgatcaacattgatg	403645	-	-	-
52966	PPPIR14A	NM_033256.1	397	ggcagacatgccggtgagatca	403644	-	see also 52965 line	
52967	PPPIR14C	NM_030949.1	312	ggcagtgaaatcacgattgtaagg	395666	-	see also 23451 line	
52968	PPPIR14C	NM_030949.1	509	aacaaacagaggaatttataaaa	395668	-	see also 23451 line	
52969	PPPIR14C	NM_030949.1	572	ctccagaaagagagtgatga	395670	-	see also 23451 line	
52970	PPPIR14D	NM_017726.6	484	ctgctcagtaactcaagaact	361163	-	see also 23452 line	
52971	PPPIR14D	NM_017726.6	220	caaccgactctccaaagatacc	361161	-	see also 23452 line	
52972	PPPIR15B	NM_032833.1	1600	ggcaggaataagtgattgatt	401837	-	see also 9300 line	
52973	PPPIR15B	NM_032833.1	1594	tggagaggcgggaataagtgtag	401835	-	see also 9300 line	
52974	PPPIR3B	NM_024607.1	403	cgcgctagatagccattcaaca	387820	-	see also 23454 line	
52975	PPPIR3B	NM_024607.1	849	tccggctgagtgtaaatctacc	387832	-	see also 23454 line	
52976	PR1	NM_183240.1	487	atgtttgagtcgaattcactgc	435640	-	see also 23455 line	
52977	PR1	NM_183240.1	472	atcggtctcaccctaattgtttg	435638	-	see also 23455 line	
52978	PR1	NM_183240.1	121	tctcgtgctctcattgtgatgg	435637	-	see also 23455 line	
52979	PRAM-1	NM_032152.3	1797	atcgaccocaaacgctaagacacg	398404	-	see also 23456 line	
52980	PRAM-1	NM_032152.3	631	ccccgcagcctgagtgagtaacc	398399	-	see also 23456 line	
52981	PRAM-1	NM_032152.3	127	ctccgaagcctgagttgtgtaaa	398397	-	see also 23456 line	
52982	PRAME	NM_006115.2	1308	ggctaatgctgaacgagtgtaagt	334835	-	see also 23457 line	
52983	PRAME	NM_006115.2	1273	cagctcagtcagtaagtaagtcc	334834	-	see also 23457 line	
52984	PRDM11	NM_020229.1	832	aaccgctaatgctccatagatgg	376277	-	see also 23458 line	
52985	PRDM11	NM_020229.1	708	ggatgaactgagtggtgtaaacg	376276	-	see also 23458 line	
52986	PRDM8	NM_020226.1	1428	ggaaacagtaacgtatattttc	376258	-	see also 7806 line	
52987	PRDM8	NM_020226.1	1598	aagaagagagtgactagtgttgg	376202	-	see also 7806 line	
52988	PRE3	NM_015387.1	484	atcagatgctcgtaggatttaca	352166	-	see also 23460 line	
52989	PRE3	NM_015387.1	471	tagcgaactagggatcagtatgc	352165	-	see also 23460 line	
52990	PRES	NM_198999.1	2290	atgaacctactcgaatagattt	440576	-	see also 10354 line	
52991	PRES	NM_198999.1	671	tgggtgagctgttcgattagatc	440521	-	see also 10354 line	
52992	PRG1	NM_002727.1	354	tggcttctaacgggaatggaaac	331031	-	see also 23462 line	
52993	PRG1	NM_002727.1	355	ggcttctaacgggaatggaaaca	331032	-	see also 23462 line	
52994	PRG1	NM_014839.2	561	acctgcaattacgattatggtag	344464	-	see also 6044 line	
52995	PRG1	NM_014839.2	1042	tgcgggctaacacggataactca	344475	-	see also 6044 line	
52996	PRIC285	NM_033405.2	5273	cccttactcgtcgggaatcaagg	403807	-	see also 23464 line	
52997	PRIC285	NM_033405.2	1993	ggcagagagctggcgtttgtgtgc	403786	-	see also 23464 line	
52998	PRICKLE1	NM_153026.1	833	ctcagcatggaagagataattt	421909	-	see also 23465 line	
52999	PRICKLE1	NM_153026.1	881	gggtgcgcatggcaactgaaac	421912	-	see also 23465 line	
53000	PRICKLE2	NM_198859.1	2278	aggagcaacctatccgattttcc	439983	-	see also 23466 line	
53001	PRICKLE2	NM_198859.1	727	aacagtagcacagctactatagc	439959	-	see also 23466 line	
53002	PRKRIP1	NM_024653.1	219	acctgacctcccccagatttg	388543	-	see also 23466 line	
53003	PRKRIP1	NM_024653.1	81	accacggaggcccaagaagagc	388541	-	see also 23468 line	
53004	PRND	NM_012409.2	493	ccctcaagcatggaggttttgg	338141	-	see also 23469 line	
53005	PRND	NM_012409.2	326	ccccgatggcattccactacaacg	338139	-	see also 23469 line	
53006	PRND	NM_012409.2	484	agctctgctccctcaagcattgc	338140	-	see also 23469 line	
53007	PRO0149	NM_014117.2	773	aactattcgtcagagagattga	339600	-	see also 23470 line	
53008	PRO0149	NM_014117.2	864	tcccttaacgagctactcaac	339602	-	see also 23470 line	

1396

図46 (続き)

53009	PRO0628	NM_014134.1	588	aacacggcattggtactaaatt	339622	-	see also 23471 line
53010	PRO0628	NM_014134.1	564	tgccctactcacacataactgt	339620	-	see also 23471 line
53011	PRO0971	NM_018569.2	966	ttctacggcgagcacttaagtat	372254	-	see also 23472 line
53012	PRO0971	NM_018569.2	969	tcggcgacgacttaagtatagc	372255	-	see also 23472 line
53013	PRO1580	NM_018502.2	967	tgcccgctgcttcgctgcttaag	372044	-	see also 23473 line
53014	PRO1580	NM_018502.2	968	ggcccgctgcttcgctgcttaagc	372045	-	see also 23473 line
53015	PRO1853	NM_018607.4	538	gtccggctgaaggctcttttaga	372314	-	see also 23474 line
53016	PRO1853	NM_018607.4	697	aggatgacacgctcagtcataaac	372318	-	see also 23474 line
53017	PRO1853	NM_018607.4	484	gcctctgctggcccaataaaca	372313	-	see also 23475 line
53018	PRO1914	NM_014106.1	1317	tcgccctgtcaaaagaaagtc	339586	-	see also 23475 line
53019	PRO1914	NM_014106.1	1234	ctgtaaattaaacccaagttaact	339584	-	see also 23475 line
53020	PRO2268	NM_018520.2	376	tcctcccgctcaaaatactagg	372113	-	see also 23476 line
53021	PRO2268	NM_018520.2	215	agccaaacaggattagactttat	372111	-	see also 23476 line
53022	PRO2730	NM_025222.2	1355	ctggccaccacaaattgtgtaca	394448	-	see also 23477 line
53023	PRO2730	NM_025222.2	1642	tgcatcctgctaaatagtgttg	394459	-	see also 23477 line
53024	PRO2964	NM_018547.1	695	tacagaataaataataacgatag	372188	-	see also 23478 line
53025	PRO2964	NM_018547.1	643	gacttggaataactgttaattc	372183	-	see also 23478 line
53026	ProSAPIP2	NM_014726.1	1690	atggcctgggtgaaagaggttg	342877	-	-
53027	ProSAPIP2	NM_014726.1	2550	gtcctggcctgctcaactatgc	342879	-	see also 53026 line
53028	ProSAPIP2	NM_014726.1	1687	gacatggcgtgggtgaaagaggt	342876	-	see also 53026 line
53029	Prostein	NM_033102.1	1328	ttcgacactcgagcagctctatt	403251	-	see also 9357 line
53030	Prostein	NM_033102.1	1330	cggcactcgagcagctctattgg	403253	-	see also 9357 line
53031	PRY	NM_004676.2	396	gactcattctctggagatagg	332743	-	-
53032	PSARL	NM_018622.3	142	tcctggcgaggttacttc	372321	-	see also 23480 line
53033	PSARL	NM_018622.3	526	agcgactgtacaggtattata	372338	-	see also 23480 line
53034	PSD	NM_002779.2	1398	aagagcgtgacccagctagatgg	331068	-	see also 23481 line
53035	PSD	NM_002779.2	2305	atgtagtagccgctatgtctct	331072	-	see also 23481 line
53036	PSFL	NM_031301.1	98	cacggagcgttggtgatcatct	396597	-	see also 23482 line
53037	PSFL	NM_031301.1	357	atcgagcgtggcctctgttc	396609	-	see also 23482 line
53038	PSG11	NM_002785.1	471	tccttcagtcacotctactat	331075	-	-
53039	PSG11	NM_002785.1	674	tcacactctgacacacagagt	331076	-	see also 53038 line
53040	PSIP2	NM_021144.2	696	gagatgacacactactgaaga	380538	-	see also 23483 line
53041	PSIP2	NM_021144.2	659	aggcagaccacaaatggtaaac	380537	-	see also 23483 line
53042	PTD002	NM_016144.2	125	cactcggtatttcaaaaacttc	356461	-	see also 6694 line
53043	PTD002	NM_016144.2	120	ttgctcactggattcttcaaaa	356459	-	see also 6694 line
53044	PTD012	NM_014039.2	306	ttgattgcctgattgactaag	339348	-	see also 5469 line
53045	PTD012	NM_014039.2	834	tcgagctggagcacactctttt	339364	-	see also 5469 line
53046	PTZB	NM_152331.1	274	tggaccccgagaagccttttgg	415691	-	-
53047	PTZB	NM_152331.1	809	cacagcatcaactataagaca	415692	-	see also 53046 line
53048	PTZB	NM_152331.1	819	aactataagcacagatgacttc	415693	-	see also 53046 line
53049	PTFA	NM_178161.1	958	aacgaaccacatttgatttgt	430548	-	see also 23486 line
53050	PTFA	NM_178161.1	792	ctccccagcccgctgattatg	430547	-	see also 23486 line
53051	PTPLB	NM_198402.1	636	gacaagctggcctatctccatc	437720	-	see also 10318 line
53052	PTPNS1	NM_080792.1	918	aacggcctcaaccgttacagaga	406772	-	see also 23487 line

1397

図46 (続き)

53053	PTPNS1	NM_080792.1	1198	ctctacctcgtccgaatcagaca	406773	-	see also 23487 line
53054	PTPNS1L2	NM_178460.1	167	atcaactggggagtcacatct	430791	-	see also 23488 line
53055	PTPNS1L2	NM_178460.1	371	tgtctgctgctggcacccttact	430798	-	see also 23488 line
53056	PTRF	NM_012232.1	422	tggagacccacccgtctctatt	337792	-	see also 23489 line
53057	PTRF	NM_012232.1	585	gagcctctctggacaaatcctgc	337794	-	see also 23489 line
53058	PTTG3	NM_021000.1	148	tgcgatctccacatccttacc	380355	-	-
53059	PTTG3	NM_021000.1	116	cicaagtttcaataatcgtttt	380354	-	see also 53058 line
53060	PTTG3	NM_021000.1	46	atccttctgctacaaaggatgg	380353	-	see also 53058 line
53061	PTX1	NM_016570.1	355	tggagcggatgtattggatttag	358163	-	see also 6917 line
53062	PTX1	NM_016570.1	91	gaggcgaactgaatggaaaaaaa	358149	-	see also 6917 line
53063	PURB	NM_033224.2	364	cgcgctcaagagcgaattctgg	403615	-	see also 9382 line
53064	PURB	NM_033224.2	268	ctcgtctggcgaacttcataaac	403612	-	see also 9382 line
53065	PVRL3	NM_015480.1	596	aacccttgacatattgactgg	353447	-	see also 6429 line
53066	PVRL3	NM_015480.1	713	ttgctagaggaagcgaattact	353453	-	see also 6429 line
53067	PWDMP	NM_025132.2	2513	ttcgggggtgattatgaatgc	393890	-	see also 8867 line
53068	PWDMP	NM_025132.2	1572	atgataagtcgctatcttatgc	393866	-	see also 8867 line
53069	PWDMP	NM_025132.2	880	tggcgcgcatcatgattgtttt	393848	-	see also 8867 line
53070	PWWP1	NM_138574.1	117	acgcctaccaggtgtttttctc	408492	-	-
53071	PYG1	NM_152901.1	180	cgcgctcggcgagctagatcgc	421533	-	see also 23494 line
53072	PYM	NM_032345.1	179	tacggagcagcgaagtatatcg	399852	-	see also 23495 line
53073	PYM	NM_032345.1	270	gaggaggtccagtatataaata	399855	-	see also 23495 line
53074	R29124.1	NM_033543.1	230	agctaactcgcagcatatgaata	404117	-	see also 23496 line
53075	R29124.1	NM_033543.1	402	atctaccatctccgtgtatcgc	404120	-	see also 23496 line
53076	R30953.1	NM_019612.1	360	cgcgctgacagtcacctaaagc	375512	-	-
53077	R30953.1	NM_019612.1	473	gcacggggcaagaagttctacttt	375513	-	see also 53076 line
53078	Rab11-FIP2	NM_014904.1	1019	gcocgatgccaatagtgaaattt	345465	-	see also 23497 line
53079	Rab11-FIP2	NM_014904.1	881	gaccgcaagtatgtttgacttat	345459	-	see also 23497 line
53080	Rab11-FIP2	NM_014904.1	1018	tgcocgatgccaatagtgaaattt	345464	-	see also 23497 line
53081	RAB15	NM_198686.1	217	gaccatcacaaagcagctactatc	439869	-	see also 10348 line
53082	RAB3IP	NM_022456.2	383	ttctacacaccccggttatcca	382840	-	see also 23500 line
53083	RAB3IP	NM_022456.2	402	ttatcccccagacggtttaatt	382841	-	see also 23500 line
53084	RABAC1	NM_006423.1	345	cgcctgttactctctctatgc	335540	-	see also 23501 line
53085	RAD9B	NM_152442.1	1095	aaggctcagatcgtgattgaaaaa	416858	-	see also 23502 line
53086	RAD9B	NM_152442.1	1172	caccaaagaaggtttatctctaag	416860	-	see also 23502 line
53087	RAD9B	NM_152442.1	1027	gccacattagctgatacaaaag	416855	-	see also 23502 line
53088	RAI14	NM_015577.1	1242	ggcgggaagcagacctaaagctttg	354260	-	see also 23503 line
53089	RAI14	NM_015577.1	1098	tactacaggtctgtagatcttat	354254	-	see also 23503 line
53090	RAI14	NM_015577.1	2462	tactcgggtcttctatgaaaaa	354279	-	see also 23503 line
53091	RAI16	NM_022749.4	1730	catatcgtccacgatgcttatg	383897	-	see also 23504 line
53092	RAI16	NM_022749.4	2048	cgggacattgatgcagaatcco	383899	-	see also 23504 line
53093	RAM2	NM_018719.2	1025	gacgacgtcacccgtatctctct	372948	-	see also 23505 line

1398

図46 (続き)

53094	RAM2	NM_018719.2	585	ttctagcgacgcttaccagaatg	372939	-	see also 23505 line
53095	RAM2	NM_018719.2	1092	ttccataactgttcgagataaaa	372952	-	see also 23505 line
53096	RAMP	NM_016448.1	1970	ctctatcagctcgtatgctca	357552	-	see also 6861 line
53097	RAMP	NM_016448.1	857	atcgacaagaaccatagcatcc	357521	-	see also 6861 line
53098	RANBP9	NM_005493.2	1483	ctgttagtctcgcaccttttagt	333887	-	see also 3817 line
53099	RANBP9	NM_005493.2	1111	cacagatagctgattctcttc	333872	-	see also 3817 line
53100	RANGNRF	NM_014185.1	295	ggctcgcgggtaccactttggag	339954	-	see also 23508 line
53101	RANGNRF	NM_014185.1	203	ccgggacaataagaagttttct	339951	-	see also 23508 line
53102	RANGNRF	NM_014185.1	197	acgggtcccgacacatacaag	339948	-	see also 23508 line
53103	RAP140	NM_015224.1	1194	gtctgagctctcatgctttgt	350007	-	see also 23509 line
53104	RAP140	NM_015224.1	2912	caccagtcagctcactgaattct	350056	-	see also 23509 line
53105	raptor	NM_020761.1	3392	tacgagattggagaccacaatat	378588	-	see also 7946 line
53106	raptor	NM_020761.1	1955	ccggaccatgacggctttcatc	378574	-	see also 7946 line
53107	RARG-1	NM_016167.3	404	agcttcacagactaacatcaaga	356508	-	see also 23511 line
53108	RARG-1	NM_016167.3	767	aagacgttggtggtcagaaga	356517	-	see also 23511 line
53109	RARRES3	NM_004585.2	125	ggagactggccctgtatatagg	332624	-	see also 23512 line
53110	RARRES3	NM_004585.2	324	ccgtggagtgatcatcagttct	332627	-	see also 23512 line
53111	RB10C1	NM_014781.1	3140	aggtataactgacggactataa	343346	-	see also 5953 line
53112	RBPM2	NM_194272.1	514	ctgaacggttgcgtttgatcc	436174	-	see also 23514 line
53113	RBPM2	NM_194272.1	526	cgcttgatcccgaaataccaca	436175	-	see also 23514 line
53114	RBT1	NM_013368.2	391	ctcgcattctccctagacaaagt	338845	-	see also 23515 line
53115	RBT1	NM_013368.2	752	ttgacacatctgcggtagaaaag	338848	-	see also 23515 line
53116	RC3	NM_015263.1	7556	ttctcccgaaacttagttgtgg	350648	-	see also 23516 line
53117	RC3	NM_015263.1	5134	aaacgcttcgaagatgattga	350557	-	see also 23516 line
53118	RCP	NM_025151.2	857	aacagcagtagcaggtcttaagc	394076	-	see also 23517 line
53119	RCP	NM_025151.2	860	agcgagtagcaggtcttaagcaac	394077	-	see also 23517 line
53120	RCP	NM_025151.2	936	ggccttcggtctgaagaatgatgt	394082	-	see also 23517 line
53121	REC14	NM_025234.1	79	gaccaaccagtagcgtattctct	394492	-	see also 23518 line
53122	REC14	NM_025234.1	823	cggttcgtcgacaaaagtgtaa	394507	-	see also 23518 line
53123	REC14	NM_025234.1	821	tcacgttgctgacaaaagtggt	394506	-	see also 23518 line
53124	RFPL1	NM_021026.1	1069	gtccacctaatggtgataagagt	380367	-	see also 23519 line
53125	RGMA	NM_020211.1	833	ggcgtctatcgacataattacc	376159	-	see also 23520 line
53126	RGMA	NM_020211.1	695	ccccggatctgccattaccaga	376155	-	see also 23520 line
53127	RGPR	NM_033127.1	507	aaggcaacggagtccttatctct	403505	-	see also 9373 line
53128	RGPR	NM_033127.1	509	ggcaacggagtccttatctctgg	403506	-	see also 9373 line
53129	RhoGAP2	NM_021226.2	1213	cagaatctggcaacccgttttgg	380853	-	see also 23522 line
53130	RhoGAP2	NM_021226.2	1225	acogtttttggaccataactct	380855	-	see also 23522 line
53131	RIC-8	NM_021932.4	886	agagtgctgcctgcttaactgaca	381369	-	see also 8203 line
53132	RIC-8	NM_021932.4	1328	ctgagcgtgctgactgaatgagc	381373	-	see also 8203 line
53133	RIC3	NM_024557.2	177	tcacactatgatcatcatcacc	387251	-	see also 23523 line
53134	RIC3	NM_024557.2	147	ggcgacacctgaaggaaaattgg	387250	-	see also 23523 line
53135	RIC3	NM_024557.2	752	agcgttagtcgaagaacaactctg	387257	-	see also 23523 line
53136	RICS	NM_014715.2	4187	ggcgggtccactacacaggtatagc	342762	-	see also 5906 line
53137	RICS	NM_014715.2	4600	gacgacttggtgggtatctatgt	342774	-	see also 5906 line

図46 (続き)

1399

53138	RIMS4	NM_182970.2	222	tggtcagaggcgaaccttaact	435497	-	see also 23524 line
53139	RIMS4	NM_182970.2	463	aagccctactctgtagagaatgg	435498	-	see also 23524 line
53140	RIPX	NM_014961.1	1839	atcagatggctgtaccattaaa	346374	-	see also 6152 line
53141	RIPX	NM_014961.1	1268	gacgggaacacagcagtaaaggatc	346360	-	see also 6152 line
53142	RNF10	NM_014868.3	2696	agcgaacggagagtgataatc	345047	-	see also 23527 line
53143	RNF10	NM_014868.3	2699	gacggagagtgataatcaga	345048	-	see also 23527 line
53144	RNF11	NM_017610.6	1507	caagggaacccagtaggattct	359468	-	see also 23528 line
53145	RNF11	NM_017610.6	1640	tactagccctccattacaatt	359474	-	see also 23528 line
53146	RNF12	NM_018320.3	969	gtgtagtcgaaggcatcaactac	370299	-	see also 7403 line
53147	RNF12	NM_018320.3	893	gagagccctcaccgcatgtatgg	370298	-	see also 7403 line
53148	RNF122	NM_024787.2	501	tccgtcaacatctatatgttca	390888	-	see also 8747 line
53149	RNF122	NM_024787.2	497	acctccgctcaacatctatg	390867	-	see also 8747 line
53150	RNF123	NM_022064.2	3630	cagctacgtcaaatgtctatct	381822	-	see also 23531 line
53151	RNF123	NM_022064.2	3018	ggctcaggtacagctatacacg	381816	-	see also 23531 line
53152	RNF125	NM_017831.2	529	gaccgcgtgtggccacgtattct	362868	-	see also 23532 line
53153	RNF125	NM_017831.2	1035	tagaccggtcactcttgaatat	362885	-	see also 23532 line
53154	RNF126	NM_017876.3	123	cgcattccgggaaggaactctgc	363353	-	-
53155	RNF126	NM_017876.3	196	aagatgcgagctctggttttatcg	363355	-	see also 53154 line
53156	RNF126	NM_017876.3	199	atgcgagctctggttttatcgagg	363356	-	see also 53154 line
53157	RNF135	NM_032322.3	1083	aagtggaacactagaattgcagc	399719	-	see also 23533 line
53158	RNF135	NM_032322.3	599	cagagccctctatcaagatctgg	399715	-	see also 23533 line
53159	RNF141	NM_016422.3	435	atcaggatcatgaatttatacc	357427	-	see also 6848 line
53160	RNF146	NM_030963.2	745	tacgatgagcgcacatagataga	395880	-	see also 8983 line
53161	RNF146	NM_030963.2	991	gacggagcggacagctgtatcagc	395889	-	see also 8983 line
53162	RNF148	NM_198085.1	236	acccttcgaagcagatgtctgt	437012	-	see also 23536 line
53163	RNF148	NM_198085.1	1023	atgtagtacacatttaacttgc	437025	-	see also 23536 line
53164	RNF152	NM_173557.1	996	agcgttcactgtgatctctgt	426067	-	see also 23537 line
53165	RNF152	NM_173557.1	974	cacacatgtcttgacattctaa	426066	-	see also 23537 line
53166	RNF17	NM_031277.1	480	caccatagtttcgaacagtttag	396387	-	see also 23538 line
53167	RNF17	NM_031277.1	745	tacaattatgcctctcttaaga	396383	-	see also 23538 line
53168	RNF17	NM_031277.1	307	aactgcagcctaaagcagataaag	396383	-	see also 23538 line
53169	RNF2	NM_007212.2	985	tggtaacgcccactgttgatcact	337105	-	see also 5019 line
53170	RNF2	NM_007212.2	989	aacgcacactgttgatcactatc	337106	-	see also 5019 line
53171	RNF20	NM_019592.5	400	atccgtatcatcttaaacgtta	375379	-	see also 7717 line
53172	RNF20	NM_019592.5	1247	cacagttctcgtctgttataat	375405	-	see also 7717 line
53173	RNF24	NM_007219.2	575	ggctgaggttgataaagtgtgt	337244	-	see also 5032 line
53174	RNF24	NM_007219.2	385	tacttgattaggctaaagacatca	337238	-	see also 5032 line
53175	RNF3	NM_006315.3	907	ggcgccctgtctgcattgaaga	335207	-	see also 4420 line
53176	RNF3	NM_006315.3	753	aagcagacagcagttcaaaaaca	335205	-	see also 4420 line
53177	RNF31	NM_017999.3	484	ctggcgtgtgtgtaagtttaata	365192	-	see also 23543 line
53178	RNF31	NM_017999.3	771	cagaatttgacccccctattgaga	365197	-	see also 23543 line
53179	RNF32	NM_030936.2	621	gtgttcacaaagcatgtcttca	395589	-	see also 23544 line
53180	RNF32	NM_030936.2	939	cagtgcttgccatataatcgaag	395594	-	see also 23544 line
53181	RNF36	NM_080745.2	734	agcgtctggcatggtgacattaa	406733	-	see also 23545 line

図46 (続き)

1400

53182	RNF36	NM_080745.2	675	cactaactctggaccctaataaaca	406732	-	see also 23545 line
53183	RNF36	NM_080745.2	615	gtctatccagttacatggtatgg	406731	-	see also 23545 line
53184	RNF38	NM_022781.3	1532	ttctatcggttcaatcctaaca	384218	-	see also 8473 line
53185	RNF38	NM_022781.3	672	ttccaccctccgaatgattcc	384200	-	see also 8473 line
53186	RNF40	NM_014771.2	3086	tgccacgactccatctatct	343208	-	see also 23546 line
53187	RNF40	NM_014771.2	1788	cagtaaccocgacacagaagaagg	343203	-	see also 23546 line
53188	RNF41	NM_005785.2	401	atgttgacgaagatcttctgc	334253	-	see also 4044 line
53189	RNF41	NM_005785.2	413	atttatctgcccattttgcagt	334255	-	see also 4044 line
53190	RNF44	NM_014901.3	1272	tcctttgggtgccattattcca	345446	-	see also 6084 line
53191	RNF8	NM_003958.2	429	accttaagggtctattccattc	332306	-	see also 23549 line
53192	RNF8	NM_003958.2	647	ctgaaggccctcaaatggaaa	332308	-	see also 23549 line
53193	ROBO4	NM_019055.4	890	ctcgccctgcccatttaccacg	374784	-	see also 7684 line
53194	ROBO4	NM_019055.4	1019	aagactacaggttcaaatggaga	374787	-	see also 7684 line
53195	RP4-	NM_019118.2	373	tgctcacctgtataggatttca	375304	-	see also 23551 line
53196	RP4-	NM_019118.2	377	caccgtgataggatttcaotct	375306	-	see also 23551 line
53197	RPC2	NM_018082.2	2976	gaactgttccatgattataa	366482	-	see also 23552 line
53198	RPC2	NM_018082.2	2983	ttgcacatggttaactacttg	366485	-	see also 23552 line
53199	RPEP	NM_153225.1	759	gactcgggggcacacotatgtcc	422326	-	-
53200	RPF1	NM_025065.5	189	agcgccgacacttaattgtcaag	393441	-	see also 8840 line
53201	RPF1	NM_025065.5	186	aacagcgagacacttaattgttc	393440	-	see also 8840 line
53202	RPF1	NM_025065.5	849	ttcaacaatcaacggattacata	393458	-	see also 8840 line
53203	RPGRIP1	NM_020366.2	1789	accggaccgtgtctggtattgtt	376936	-	see also 7849 line
53204	RPGRIP1	NM_020366.2	1790	cccgaccgtgtctggtattgtt	376937	-	see also 7849 line
53205	RPB9	NM_138290.1	729	ctctagctctctggactatctc	407460	-	see also 9593 line
53206	RPB9	NM_138290.1	1778	tactttgaactctactacacaga	407491	-	see also 9593 line
53207	Rpb25	NM_017793.1	1218	ccgttagtctcagcgtaactaag	362453	-	see also 23554 line
53208	Rpb25	NM_017793.1	1219	cgctagttcagcgtaactaaga	362454	-	see also 23554 line
53209	RSHL2	NM_031924.3	495	tcctcgctcgcggaatcctttgc	397354	-	see also 23555 line
53210	RSHL2	NM_031924.3	982	tgctgctcgcaataatagaagttg	397367	-	see also 23555 line
53211	RTBDN	NM_031429.1	359	gacgtcttcggctacagaatcc	396946	-	see also 23556 line
53212	RTBDN	NM_031429.1	781	ttcgcaactcggaagatgat	396949	-	see also 23556 line
53213	RTKN2	NM_145307.2	469	atcacgacgtctatccattttt	414297	-	see also 23557 line
53214	RTKN2	NM_145307.2	285	ctcgactaatggcctatcatcag	414291	-	see also 23557 line
53215	RTP801	NM_019058.1	570	agccaggtggcgaagaactact	374802	-	see also 23558 line
53216	RTTN	NM_173630.2	2377	atcggtcgttcgctagcattaa	426764	-	see also 10092 line
53217	RTTN	NM_173630.2	2379	cggctcgttcgctagcattaaag	426766	-	see also 10092 line
53218	RWDD3	NM_015485.2	448	cacgacacatggtatgattgt	353498	-	see also 23560 line
53219	RWDD3	NM_015485.2	246	tacctgttctcgtatgaactct	353493	-	see also 23560 line
53220	RWDD3	NM_015485.2	256	ctcgattaaactgaacagtga	353494	-	see also 23560 line
53221	RYD5	NM_145651.1	87	ggggaggacacagatgagtttt	414628	-	see also 23561 line
53222	RYD5	NM_145651.1	111	atggacttctcgoaacactact	414629	-	see also 23561 line
53223	SACM1L	NM_014016.1	147	agcagatgacgttaccatttg	339147	-	see also 5456 line
53224	SACM1L	NM_014016.1	421	ttctcagcatgctaaacatgt	339156	-	see also 5456 line
53225	SAGE	NM_018666.1	1546	ttctatccgggttattaatag	372422	-	see also 23563 line

図 46 (続き)

1401

53226	SAGE	NM_018666.1	1094	acgcgaacctataacgctattgt	372414	-	see also 23563 line
53227	SAMD3	NM_152552.1	441	caatggaagaagctctctgtttt	418040	-	see also 23564 line
53228	SAMD3	NM_152552.1	114	gcgcctctcttgcacttaataga	418033	-	see also 23564 line
53229	SAMD3	NM_152552.1	113	ggcgcctctcttgcacttaataga	418032	-	see also 23564 line
53230	SAMD4	NM_015589.2	1058	gaccgaacctgacatcaacaaca	354351	-	see also 23565 line
53231	SAMD4	NM_015589.2	382	caacgctaatgggaaagatgtgo	354343	-	see also 23565 line
53232	SAMD6	NM_173551.1	917	aaggagacgcgagagacaaatttt	425965	-	see also 23566 line
53233	SAMD6	NM_173551.1	534	ctcctgttgcaagcagaaatttg	425959	-	see also 23566 line
53234	SAMD7	NM_182610.1	1369	ttcagggcactatgggataaag	434650	-	see also 23567 line
53235	SAMD7	NM_182610.1	811	gtcgtcgaactcaggaataataca	434641	-	see also 23567 line
53236	SAMD8	NM_144660.1	1021	gtcaacgaatgaagtatttttt	411109	-	see also 9727 line
53237	SAMD8	NM_144660.1	439	gactgtgacggaccataactga	411088	-	see also 9727 line
53238	SAMD8	NM_144660.1	986	ggcaacacgtcgtcactactatg	411107	-	see also 9727 line
53239	SAMSN1	NM_022136.2	458	ttcagatcgtttcggataatttc	382432	-	see also 8300 line
53240	SAMSN1	NM_022136.2	459	tcgatcgttttcggataatttc	382433	-	see also 8300 line
53241	SAMSN1	NM_022136.2	462	atcgttttcggataatttttta	382434	-	see also 8300 line
53242	SAP130	NM_024545.2	1738	agcgtctacccgtccacctaacc	386976	-	see also 8636 line
53243	SAP130	NM_024545.2	1783	tgcatcgtcgtcgtcgacatttc	386977	-	see also 8636 line
53244	SAS10	NM_020368.1	761	gacacgggtcgtgaagattttgg	377016	-	see also 23571 line
53245	SAS10	NM_020368.1	1067	tacctaccgaaatttgatcaaca	377025	-	see also 23571 line
53246	SBB154	NM_138334.1	423	aggtggacggtgtctactacaac	407529	-	see also 9599 line
53247	SBB154	NM_138334.1	224	acggcacaactatgatgtcaatgt	407528	-	see also 9599 line
53248	SCAMP-4	NM_079834.1	374	ggccgcagacgtcctttaatttc	406365	-	see also 9510 line
53249	SCAMP5	NM_138967.1	445	tccttctcggacacgaacattgg	409323	-	see also 23573 line
53250	SCAMP5	NM_138967.1	294	ctggtttcggcccaatttacaagg	409321	-	see also 23573 line
53251	SCAPIN1	NM_080672.2	1190	agcgaactgcgcgttaaggaatct	406632	-	see also 23574 line
53252	SCAPIN1	NM_080672.2	1284	ggcgtgtgaacgactccattattt	406636	-	see also 23574 line
53253	SCDR10	NM_198533.1	1078	aagcaaaaccggagaaaaacggacg	439265	-	see also 23575 line
53254	SCDR10	NM_198533.1	1176	ctcaactgtttggccatgattga	439266	-	see also 23575 line
53255	SCDR10	NM_198533.1	1050	agcccaagatgaagtcatcaaga	439264	-	see also 23575 line
53256	SCG3	NM_013243.2	418	ctcggagaccgcaacttgattct	338372	-	see also 5359 line
53257	SCG3	NM_013243.2	1784	agggccatcaagcgcattttatgc	338405	-	see also 5359 line
53258	SCGB3A2	NM_054023.2	191	gacaaagttggacacottaccctct	405972	-	see also 23577 line
53259	SCGB3A2	NM_054023.2	291	aggggctaaaggaagtgtgtaaat	405974	-	see also 23577 line
53260	SCML4	NM_198081.1	887	cgcgcactagccccatgtctctct	436996	-	see also 23578 line
53261	SCML4	NM_198081.1	705	gacagtcaccaccggaagagtagcc	436995	-	see also 23578 line
53262	SCML4	NM_198081.1	300	cacagctcgtcctcatcaaca	436993	-	see also 23578 line
53263	SCN4B	NM_174934.1	595	ttctcctaagttgttagact	428731	-	see also 23579 line
53264	SCN4B	NM_174934.1	373	gacgattccaagattctcataga	428727	-	see also 23579 line
53265	SCN4B	NM_174934.1	371	gtgacgattccaagattctcataga	428726	-	see also 23579 line
53266	SCNM1	NM_024041.1	97	gacgattccaagattctcataga	385604	-	see also 23580 line
53267	SCNM1	NM_024041.1	185	ttcgggatggacgcttgccttgt	385607	-	see also 23580 line
53268	SCOC	NM_032547.1	459	atgtcagcttctgtgtttttca	400645	-	see also 23581 line
53269	SCOC	NM_032547.1	252	ttgttaccacaagatgatgaatgc	400643	-	see also 23581 line

図46 (続き)

1402

53270	SDBCAG8	NM_015966.2	512	ctgaggcagaagatatcaagtgc	355659	-	see also 23582 line
53271	SDBCAG8	NM_015966.2	674	atggctcttgggaagtcataaag	355663	-	see also 23582 line
53272	SDCCAG1	NM_004713.2	1155	caggtagttgaagtgcttttagc	332775	-	see also 3231 line
53273	SDCCAG1	NM_004713.2	1878	tgggtgacacaggttactactag	332789	-	see also 3231 line
53274	SDCCAG1	NM_006649.2	1715	aacctctaaacacacacacaccc	336039	-	see also 23584 line
53275	SDCCAG1	NM_006649.2	1227	agggccatggaggtttctgaaagt	336037	-	see also 23584 line
53276	SDCCAG8	NM_006642.1	339	tactatgcacagacctgttcata	335985	-	see also 23585 line
53277	SDCCAG8	NM_006642.1	346	caagacctgtttactactactaa	335988	-	see also 23585 line
53278	SDCCAG8	NM_006642.1	344	tgcacagacctgtttactactatt	335987	-	see also 23585 line
53279	SDK1	NM_152744.2	2340	ctcggctgtacactatcaattc	420358	-	see also 9941 line
53280	SDK1	NM_152744.2	2475	ggcggactaatcagtcactattg	420363	-	see also 9941 line
53281	SDK1	NM_152744.2	2341	tccgctgtacactatcaattcc	420359	-	see also 9941 line
53282	SDK2	NM_019064.2	2820	caccggcttgggcaaatcagtcg	374864	-	see also 23587 line
53283	SDK2	NM_019064.2	3687	cagccttcagggcatcaacaacc	374868	-	see also 23587 line
53284	SDK2	NM_019064.2	4734	cgcggtcaacgactatggtttcg	374874	-	see also 23587 line
53285	SDOS	NM_032349.2	539	ccctcaaggtgtcaacatgatg	399869	-	see also 23587 line
53286	SDOS	NM_032349.2	537	tgcctcaaggtgtcaacatga	399868	-	see also 53285 line
53287	SE57-1	NM_025214.1	245	gtctacgtccgctcacattattg	394425	-	see also 23588 line
53288	SE57-1	NM_025214.1	249	agctcgtccacattattgaaga	394427	-	see also 23588 line
53289	SEC13L	NM_031216.2	918	tggctcactgataataataat	395999	-	see also 8992 line
53290	SEC13L	NM_031216.2	199	cagcagatcagagcgttaaggt	395973	-	see also 8992 line
53291	SEC31L2	NM_015490.3	374	ggcgggacaatgggcatcttatt	353513	-	see also 23590 line
53292	SEC31L2	NM_015490.3	2425	cagctaagagatcggttttcca	353552	-	see also 23590 line
53293	SELH	NM_170746.1	542	gccccacacaaactcaaatcc	424155	-	see also 23591 line
53294	SELH	NM_021237.2	145	ttctggggaatagctgagttgt	380878	-	-
53295	SELM	NM_080430.1	269	cagcagagacattccattctatc	406376	-	see also 23592 line
53296	SELM	NM_080430.1	270	acgcagagacattccattctatca	406377	-	see also 23592 line
53297	SELV	NM_182704.1	970	tccgaataccactactotttgagg	434918	-	see also 23593 line
53298	SELV	NM_182704.1	930	ttcgggtacattctactgaaaaag	434915	-	see also 23593 line
53299	SEMA3D	NM_152754.1	1061	aacgggaatagggtctactgattc	420638	-	see also 9948 line
53300	SEMA3D	NM_152754.1	430	caggaggacacagcttcaagaga	420609	-	see also 9948 line
53301	SES1	NM_014766.2	768	ggagaggcgaggttcaattttcc	343177	-	see also 23595 line
53302	SES1	NM_014766.2	979	aagctctccgtgctactactact	343179	-	see also 23595 line
53303	Ses2	NM_138355.1	217	ctccagtgcaacctacattgaagt	407568	-	see also 23596 line
53304	Ses2	NM_138355.1	944	agccctcgtgcactttcttacc	407571	-	see also 23596 line
53305	SES3	NM_024583.2	133	aacagtgataacacaggtattatt	387575	-	see also 23597 line
53306	SES3	NM_024583.2	812	gagggtcacagcttctataataa	387595	-	see also 23597 line
53307	SETMAR	NM_006515.1	892	ctctgtactgcgcccgtagaaaag	335725	-	see also 4558 line
53308	SETMAR	NM_006515.1	74	cgcgtggaggcgagaaacttgc	335697	-	see also 4558 line
53309	SEZ6	NM_178860.2	1360	ccccgtctcagctattggaga	432032	-	see also 10223 line
53310	SFMBT1	NM_016329.1	1441	gagtgcttccctccgttaattt	356988	-	see also 6811 line
53311	SFMBT1	NM_016329.1	1681	tccctcgcagacagagatata	356993	-	see also 6811 line
53312	SGTB	NM_019072.1	818	atggctagcttgataaataatcc	374919	-	see also 7693 line
53313	SGTB	NM_019072.1	210	ttcgtttttacaggacaagaagt	374894	-	see also 7693 line

図 46 (続き)

1403

53314	SH2BP1	NM_014633.1	880	atctagcaaacctctgtgttg	341483	-	see also 5801 line
53315	SH2BP1	NM_014633.1	1572	tccgttaccacgcatataatct	341507	-	see also 5801 line
53316	SH3GLB1	NM_016009.2	689	atcgtcaagcagagattaccaga	355836	-	see also 6608 line
53317	SH3GLB1	NM_016009.2	749	accttcgtctgtgactgacttt	355837	-	see also 6608 line
53318	SH3GLB2	NM_020145.2	1163	agctgggtgctctatgactacg	375689	-	see also 7766 line
53319	SH3MD1	NM_014631.1	1297	ccccgaatcatatcatgaagc	341443	-	see also 23603 line
53320	SH3MD1	NM_014631.1	2325	ggccagccacctcgtacatgaca	341446	-	see also 23603 line
53321	SH3MD2	NM_020870.1	291	atcgttagttctcgaaatgaact	379722	-	see also 23604 line
53322	SH3MD2	NM_020870.1	263	tacgttttcagcagctgttttgo	379720	-	see also 23604 line
53323	SH3YL1	NM_015677.1	1140	aagtgacagcgtctatctattt	354977	-	see also 23605 line
53324	SH3YL1	NM_015677.1	868	gcctctctaaagccgaagatcttt	354969	-	see also 23605 line
53325	SIP	NM_014412.1	197	atgcccttacagctgaaaaatcc	340555	-	see also 5666 line
53326	SIP	NM_018269.1	449	cacggtagcagagagaactaca	369599	-	see also 23607 line
53327	SIP	NM_018269.1	208	tccgaagcagagagaactactcc	369597	-	see also 23607 line
53328	SITPEC	NM_016581.2	960	ctccgaacaagtggtgttatta	358221	-	see also 23608 line
53329	SITPEC	NM_016581.2	952	ccctgtggtccgcgaacaagtgt	358220	-	see also 23608 line
53330	SIX5	NM_175875.3	1610	gcccacacctccccactattgaac	429409	-	transcription_regulat or
53331	SIX5	NM_175875.3	2160	cccacacagaggagctgtgtgt	429411	-	see also 53330 line
53332	SIX5	NM_175875.3	1611	cccacacctccccactattgaacc	429410	-	see also 53330 line
53333	SLA02-B	NM_015065.1	3787	gacgactagtagctgtttctgtt	347666	-	see also 6219 line
53334	SLA02-B	NM_015065.1	3785	aagacagactagtagctgtttctgt	347665	-	see also 6219 line
53335	SLAMF9	NM_033438.1	599	gggggagtagcaactatacatcc	403998	-	see also 23610 line
53336	SLAMF9	NM_033438.1	739	ttctatgcagatccttaactatgc	404001	-	see also 23610 line
53337	SLC16A10	NM_018593.2	1581	tccctgtagatcatatgaagaag	372309	-	see also 23611 line
53338	SLC16A10	NM_018593.2	1387	tccctagacattgttagttgt	372299	-	see also 23611 line
53339	SLC16A11	NM_153357.1	464	ggccgcagccttcgcgataaacg	423041	-	see also 23612 line
53340	SLC16A11	NM_153357.1	713	cagcgatcgtcgtcatctatcacc	423042	-	see also 23612 line
53341	SLC27A1	NM_198580.1	764	ggcgatgagcagctgtcttttct	439728	-	see also 23613 line
53342	SLC27A1	NM_198580.1	573	ggcgctaaggccctgtatctttgg	439726	-	see also 23613 line
53343	SLC35A4	NM_080670.2	1009	tgctctatggcgctaacacaac	406623	-	see also 23614 line
53344	SLC35A4	NM_080670.2	1026	aacaacctgtgtatctatttcca	406624	-	see also 23614 line
53345	SLC35B3	NM_015948.2	1236	tccagttcggacctatgtgtatg	355585	-	see also 6587 line
53346	SLC35B3	NM_015948.2	1235	atccagttcggacctatgtgtat	355584	-	see also 6587 line
53347	SLC35E1	NM_024881.3	1214	accacaactcgtacagtttgaac	391642	-	see also 23616 line
53348	SLC35E1	NM_024881.3	1142	cccagcagggagactatcagtac	391641	-	see also 23616 line
53349	SLC35E1	NM_024881.3	1225	tacagtttgaacgcgtatgtgt	391644	-	see also 23616 line
53350	SLC35E3	NM_018656.1	618	atctaatctctattacgatgt	372367	-	see also 23617 line
53351	SLC35E3	NM_018656.1	626	ttctattacagatgaagttta	372368	-	see also 23617 line
53352	SLC35F3	NM_173508.1	885	tacggatgtctcgtgtgtgtct	425211	-	see also 10075 line
53353	SLC35F3	NM_173508.1	1399	accagtcagatcgtcttcaatgg	425221	-	see also 10075 line
53354	SLC35F5	NM_025181.2	1348	tggagcgtgtgtactgtgtaaac	394276	-	see also 23619 line
53355	SLC35F5	NM_025181.2	1067	ttgtctcgcatgtcatctctgt	394261	-	see also 23619 line
53356	SLC36A2	NM_181776.1	544	tcgtgagcttcttcttataaac	433170	-	see also 23620 line

図4.6 (続き)

1404

53357	SLC36A2	NM_181776.1	140	tgcctcaaatggacattatgt	433165	-	see also 23620 line
53358	SLC36A3	NM_181774.1	1550	tggcccttttaggtgtatatt	433140	-	see also 23621 line
53359	SLC36A3	NM_181774.1	803	ttcttttctacatcctgataatc	433133	-	see also 23621 line
53360	SLC37A2	NM_198277.1	1455	ttgtctctttgcgggttagtata	437451	-	see also 23622 line
53361	SLC37A2	NM_198277.1	1465	gcccgttagtatacaaaagatc	437455	-	see also 23622 line
53362	SLC43A1	NM_003627.3	613	cacgttaatggcctcatcattg	331799	-	see also 23623 line
53363	SLC43A1	NM_003627.3	957	atgttggggcactcgaagaaac	331803	-	see also 23623 line
53364	SLC4A9	NM_031467.1	1161	ctcggcgtactctacattacc	397154	-	see also 23624 line
53365	SLC4A9	NM_031467.1	1159	ttctcggcgtactctacattta	397153	-	see also 23624 line
53366	SLC1	NM_153337.1	329	cgcctggaagcagctcaaatgc	422785	-	see also 23625 line
53367	SLC1	NM_153337.1	368	agctcgcatcgaggagagaaag	422786	-	see also 23625 line
53368	SMC4L1	NM_005496.2	469	tctctgggttatgataactcata	333919	-	see also 3826 line
53369	SMC4L1	NM_005496.2	3706	cgccgaactcagcttagacaca	334024	-	see also 3826 line
53370	SMC4L1	NM_005496.2	3760	cagtttgcgaccacctaagaaaa	334025	-	see also 3826 line
53371	SMCR5	NM_144774.1	553	tactttctcgggttcagaatact	411905	-	see also 23627 line
53372	SMCR5	NM_144774.1	454	tgcgaagrgttagaggaataaa	411901	-	see also 23627 line
53373	SMCR7	NM_139162.2	325	ggcgtgaagcgggttcattgaca	409360	-	see also 23628 line
53374	SMCR7	NM_139162.2	327	cogtgaagcgggttcattgacagg	409381	-	see also 23628 line
53375	SMCR8	NM_144775.1	896	caggagctttcagccgaatttc	411911	-	see also 23629 line
53376	SMCR8	NM_144775.1	2362	ggctagccgggacacagtaaga	411935	-	see also 23630 line
53377	SMTH1	NM_006936.1	384	gcctagcagggcacagttctag	336619	-	see also 23631 line
53378	SMU-1	NM_018225.1	685	atgtggaggtgtctcgtatttct	368599	-	see also 23631 line
53379	SMU-1	NM_018225.1	368	ggcagagcgatataatcattctgg	368595	-	see also 23631 line
53380	SMU-1	NM_018225.1	687	gtggaggtgtcgtgatttctoc	368600	-	see also 23631 line
53381	SMYD2	NM_020197.1	936	tccggagggcccaagcaactataa	376090	-	see also 23632 line
53382	SMYD2	NM_020197.1	752	ctgtaccacagggaagatagaaa	376082	-	see also 23632 line
53383	SMYD3	NM_022743.1	576	accccaactgtctgattgtgtc	383837	-	see also 8451 line
53384	SMYD3	NM_022743.1	144	ggcgcgtgcgcaaaatactagt	383831	-	see also 8451 line
53385	SNIP1	NM_024700.2	975	agcagcatcgggttctcaaatat	389406	-	see also 23634 line
53386	SNIP1	NM_024700.2	720	aagagggtgcccgctaaagaaaa	389390	-	see also 23634 line
53387	SOAT	NM_197965.1	643	ctggcgaaaggatottggaaatc	436932	-	see also 23635 line
53388	SOAT	NM_197965.1	536	gtgtctatgtgaattacagatgg	436930	-	see also 23635 line
53389	SOC	NM_145345.1	408	ggcgcgttctcctcagtaactatgg	414434	-	see also 23636 line
53390	SOC	NM_145345.1	751	agcgtgtcgtccggagacatttg	414436	-	see also 23636 line
53391	SOM	NM_021180.2	1107	aggtgttcacgtcgtaaacgt	380653	-	see also 23637 line
53392	SOM	NM_021180.2	1744	atgcaagcggaggaatcttagtca	380662	-	see also 23637 line
53393	SOSTDC1	NM_015464.1	698	aacgagtcagtcacaaacttga	353328	-	see also 23638 line
53394	SOSTDC1	NM_015464.1	214	tcccttgcagtcacttaataa	353318	-	see also 23638 line
53395	SOSTDC1	NM_015464.1	571	gtggcgggtgtgtcaatgacaaaa	353325	-	see also 23638 line
53396	SP192	NM_021639.3	1696	tccgtgttccaaagtgtctataa	380987	-	see also 8159 line
53397	SP192	NM_021639.3	1811	ggcgggagctcgtgtttaccagt	380990	-	see also 8159 line
53398	SPACA1	NM_030960.2	535	cacacatcccttcaatcgttt	395705	-	see also 23640 line
53399	SPACA1	NM_030960.2	542	ctccctaaatcgtttcaaatat	395706	-	see also 23640 line
53400	SPAG5	NM_006461.1	2917	acccgagtagcatcaatggtttc	335639	-	see also 23641 line

図46 (続き)

1405

53401	SPAG5	NM_006461.1	1674	gtctggcgtcgagaaacattgg	335626	-	see also 23641 line
53402	SPAG5	NM_006461.1	1350	tgcttctctcgacgacttgg	335617	-	see also 23641 line
53403	SPANXE	NM_145665.1	200	aaactgctcgcgaaaaaactaaaa	400208	-	-
53404	SPANXE	NM_145665.1	201	acctctcgcgaaaaaactaaaa	400209	-	see also 53403 line
53405	SPATA1	NM_022354.1	296	aggatcatggaactataagctaa	332645	-	see also 23642 line
53406	SPATA1	NM_022354.1	862	atgattgcttggcactaaaaa	332662	-	see also 23642 line
53407	SPATA11	NM_032306.2	889	tagggcgtcagcccggttgaact	399612	-	see also 23643 line
53408	SPATA11	NM_032306.2	891	ggggcctagcccggttgaacttc	399613	-	see also 23643 line
53409	SPATA12	NM_181727.1	1197	caggctccctctctacagtatact	433061	-	see also 23644 line
53410	SPATA12	NM_181727.1	952	gacatcgctgtatcccaataaa	433050	-	see also 23644 line
53411	SPATA6	NM_019073.1	1053	cfggcgaccacaaggattataagg	374955	-	see also 7694 line
53412	SPATA7	NM_018418.1	528	ccctcaggcggaacccgaattga	371300	-	see also 23646 line
53413	SPATA7	NM_018418.1	202	atggtcacccgtgctctatttaa	371285	-	see also 23646 line
53414	SPATA9	NM_031952.1	455	cgccgaggcaacccctattaaac	397479	-	see also 23647 line
53415	SPATA9	NM_031952.1	310	aagattaatcgagcaacattaac	397475	-	see also 23647 line
53416	SPATS1	NM_145026.2	955	ctccaggcgacaatccatataatg	412852	-	see also 23648 line
53417	SPATS1	NM_145026.2	953	aactccaggcgacaatccatata	412851	-	see also 23648 line
53418	SPATS2	NM_023071.1	1144	tgcaaggatcgaggttgtagtta	385058	-	see also 23649 line
53419	SPATS2	NM_023071.1	1146	caggtatcgaggttgtagttaaa	385059	-	see also 23649 line
53420	SPG20	NM_015087.3	1885	tgggctaacgtcctacaattata	348003	-	see also 6226 line
53421	SPG20	NM_015087.3	862	ttctctgataaggcttcaaac	347969	-	see also 6226 line
53422	SPG6	NM_144599.2	1401	gggtacgttcgggtccatttta	410206	-	see also 23651 line
53423	SPG6	NM_144599.2	1492	ctccgtgctgtattatccact	410211	-	see also 23651 line
53424	SPON1	NM_006108.1	439	aaccagctacccgcgttaacacttt	334784	-	see also 23652 line
53425	SPON1	NM_006108.1	971	agcgaaggcggtcaacaagttgc	334799	-	see also 23652 line
53426	SPRED2	NM_181784.1	470	aaggctgataataggagtttgg	433307	-	see also 23654 line
53427	SPRED2	NM_181784.1	462	atcaatggaaggctgataatagg	433305	-	see also 23654 line
53428	SPRR3	NM_005416.1	501	ctgacaaaggctctcaaatgatt	333754	-	see also 23655 line
53429	SPRR4	NM_173080.1	147	ggcaaccctgttaaatgtcaag	424600	-	see also 23656 line
53430	SPRR4	NM_173080.1	143	gtcagccaccctgttaaatgt	424598	-	see also 23656 line
53431	SPUF	NM_013349.3	435	tgccgggaggaattctcaatgagg	338812	-	see also 23657 line
53432	SPUF	NM_013349.3	235	tcgggaaaggaggtttatggacg	338810	-	see also 23657 line
53433	SPUF	NM_013349.3	432	cactgcocgggagaattctcaatg	338811	-	see also 23657 line
53434	SPY1	NM_182756.1	751	ttgcaaccaaccattatattctgg	434998	-	see also 23658 line
53435	SPY1	NM_182756.1	700	ttgactataggctattgttaagc	434995	-	see also 23658 line
53436	SR-A1	NM_021228.1	677	ccccgattcgatatctatgacc	380865	-	see also 23659 line
53437	SR-A1	NM_021228.1	2587	tggctccattggcgtcaaatc	380870	-	see also 23659 line
53438	SRM2	NM_016333.2	6410	ctcggggaacagctccctaaca	357193	-	see also 6815 line
53439	SRM2	NM_016333.2	498	ggcgaccttcgactcatgttgc	357081	-	see also 6815 line
53440	SS18L2	NM_016305.1	183	gaccagctgacgcgtgtattgt	356934	-	see also 23661 line
53441	SS18L2	NM_016305.1	194	ccgctgtattggagatcaga	356935	-	see also 23661 line
53442	SSTK-IP	NM_144627.1	449	ctccccgcttatattaatttc	410515	-	see also 23662 line
53443	SSTK-IP	NM_144627.1	450	tccccagctattattatttca	410516	-	see also 23662 line
53444	SSTR4	NM_001052.1	750	caggcgtcgcggagaagaataca	330139	-	see also 23663 line

図46 (続き)

1406

53445	SSTR4	NM_001052.1	371	gcctgacggcctcaacatgttc	330138	-	see also 23663 line
53446	SSX2IP	NM_014021.1	1483	cagctgctactgcatatgatga	339254	-	see also 23664 line
53447	SSX2IP	NM_014021.1	1515	ttcaatattacggagactgtatt	339257	-	see also 23664 line
53448	ST5	NM_005418.2	3058	gaagacgaagacacgtgttaac	333779	-	see also 3786 line
53449	ST5	NM_005418.2	3154	gactccgaagatgaatgaatac	333783	-	see also 3786 line
53450	ST5	NM_005418.2	3151	agcgactccgacgagatgaataa	333782	-	see also 3786 line
53451	ST7	NM_018412.2	366	caatataacacgaagttctacg	371243	-	see also 7450 line
53452	ST7	NM_018412.2	1727	caatcaagttcccggaacttatg	371282	-	see also 7450 line
53453	ST7	NM_018412.2	452	ttcgcaataacgggaacttaattc	371246	-	see also 7450 line
53454	ST7L	NM_017744.4	1596	ctgaacagggtgatatgtgaagc	361472	-	see also 7131 line
53455	ST7L	NM_017744.4	974	agcagcttatcaagcttgaat	361459	-	see also 7131 line
53456	STAF42	NM_053053.2	206	ttctcaacggtgtcagatttg	405912	-	see also 9486 line
53457	STAF42	NM_053053.2	268	gggggtcccgagcaaaacctgg	405913	-	see also 9486 line
53458	STAG2	NM_006603.3	2420	gtgtactcaactatgtatccttt	335902	-	see also 4654 line
53459	STAG2	NM_006603.3	3067	ttgtctgacgtttgtcttaact	335917	-	see also 4654 line
53460	STARD10	NM_006645.1	812	acgtcgaactgggtattactacc	336029	-	see also 4698 line
53461	STARD10	NM_006645.1	762	atgggacagcaacgctcattgaga	336026	-	see also 4698 line
53462	STARD7	NM_020151.2	1284	ttctctgctactgttagtttg	375718	-	see also 7769 line
53463	STARD7	NM_020151.2	1058	atgtactcaagggtattgttta	375711	-	see also 7769 line
53464	STARS	NM_139166.2	389	aacgggtggtcagcaagactaacg	409366	-	see also 23671 line
53465	STARS	NM_139166.2	96	aagagcgccctccgggaagatacg	409362	-	see also 23671 line
53466	STATI1P	NM_018255.1	840	caagtctagccggtcatgaatac	369177	-	see also 23672 line
53467	STATI1P	NM_018255.1	343	tgcgggtgcatgctgtttaccaga	369161	-	see also 23672 line
53468	STEPP	NM_152990.2	96	tgcagagatgcacatagatcatt	421692	-	see also 23673 line
53469	STEPP	NM_152990.2	97	ggcagagatgcacatagatcatt	421693	-	see also 23673 line
53470	STI2	NM_145755.1	3785	aagttcgaactccgcttagaact	414918	-	see also 23674 line
53471	STI2	NM_145755.1	2860	ggcgtaacagcttataaaggatg	414908	-	see also 23674 line
53472	STK11IP	NM_052902.1	275	ggcgactccctgttatcttca	405141	-	see also 23675 line
53473	STK11IP	NM_052902.1	271	tcctgcccactccctgttattc	405140	-	see also 23675 line
53474	STK22B	NM_053006.3	183	gggttctacgcaaaagtcaaat	405769	-	see also 23676 line
53475	STK22B	NM_053006.3	157	tacatcgtagcatcaactctgg	405767	-	see also 23676 line
53476	STK22B	NM_053006.3	366	ctctgaaggagggatctacatca	405773	-	see also 23676 line
53477	STRAIT11						
53477	499	NM_021242.3	884	accagaagcaactcgctcttaac	380879	-	see also 8143 line
53478	STRC	NM_153700.2	3200	tccttctcaggcagcatatcacc	423672	-	see also 10008 line
53479	STX1B2	NM_052874.1	681	tccggagctgcacgatatgttt	404572	-	see also 23679 line
53480	STX1B2	NM_052874.1	438	tggaggtaatgaccggaataaac	404571	-	see also 23679 line
53481	STXBP4	NM_178509.3	321	gccaaagttagtactaggttaga	430949	-	see also 23680 line
53482	STXBP4	NM_178509.3	316	cggggcccaagtggagtactagg	430948	-	see also 23680 line
53483	STXBP5	NM_139244.2	2897	gtgtctcgaagtggactatatt	409554	-	see also 23681 line
53484	STXBP5	NM_139244.2	2516	cccgatctcctcgaatctctg	409542	-	see also 23681 line
53485	STXBP6	NM_014178.5	455	ctggaggtcgaagcggaattatta	339889	-	see also 23682 line
53486	STXBP6	NM_014178.5	464	aagcgaatatttaacttatctc	339892	-	see also 23682 line
53487	SUHW1	NM_080740.1	1515	ggcttcggtattgttgcaaca	406724	-	see also 23683 line

図46 (続き)

1407

53488	SUHW1	NM_080740.1	813	tccatcgtgttacttagcaact	406716	-	see also 23683 line
53489	SULTIC2	NM_006588.2	610	ggcacgcactcatacaacgatttc	335823	-	see also 23684 line
53490	SULTIC2	NM_006588.2	944	gacaaacacgcgtattctctct	335830	-	see also 23684 line
53491	SULTIC2	NM_006588.2	431	aactacgtgaagggaattctca	335820	-	see also 23684 line
53492	SUMF1	NM_182760.2	727	ctgtcgtggaggagcctgcataata	435126	-	see also 23685 line
53493	SUMF1	NM_182760.2	366	cacctgcgaggaggttactatt	435120	-	see also 23685 line
53494	SVH	NM_031905.2	623	gacctcgcagccctgaagacttaa	397244	-	see also 23686 line
53495	SYAP1	NM_032796.2	555	tccgctggcgtgcgaatttaatt	401528	-	see also 23687 line
53496	SYAP1	NM_032796.2	554	ctccgctggcgtgcgaatttaatt	401527	-	see also 23687 line
53497	SYCP3	NM_153694.2	122	gcccgtctgtggaagatcagttta	423550	-	see also 23688 line
53498	SYCP3	NM_153694.2	220	ctgcagtcattgagaacgttagg	423555	-	see also 23688 line
53499	SYN1	NM_006950.2	1265	gacggaaaggatcacatcattga	336636	-	see also 4865 line
53500	SYN1	NM_006950.2	149	cgccctgtggagcgaacttat	336620	-	see also 4865 line
53501	SYN1	NM_006950.2	495	cgcacaccgactggcgaataac	336622	-	see also 4865 line
53502	SYNCOIL1	NM_030786.1	361	atcgacactgtgaggcaaaaacg	394994	-	see also 23690 line
53503	SYNCOIL1	NM_030786.1	321	cggcagcctccctcgtcaaaaaca	394993	-	see also 23690 line
53504	SYNE1	NM_015293.1	9421	gtccctattgatttaaccttga	351301	-	see also 23691 line
53505	SYNE1	NM_015293.1	7705	ctggatgactattcacgttttga	351282	-	see also 23691 line
53506	SYNE2	NM_015180.3	20267	ggcctaatgcacagatccaaaagg	349442	-	see also 6270 line
53507	SYNE2	NM_015180.3	19764	ggggactggcgggtacacaga	349434	-	see also 6270 line
53508	SYNPO	NM_007286.3	2771	ggcgtcttctggcgggaacatca	337407	-	see also 23693 line
53509	SYNPO	NM_007286.3	580	taccactgggtttatctaaag	337388	-	see also 23693 line
53510	SYNPO2L	NM_024875.1	1771	cocgcctctattgcttaaac	391619	-	see also 8800 line
53511	SYNPO2L	NM_024875.1	1875	agggcatacaggctctagatttt	391621	-	see also 8800 line
53512	SYNPO2L	NM_024875.1	378	cocgcgcctcaccaatcaatct	391612	-	see also 8800 line
53513	SYT10	NM_198992.1	1647	ttgcggctcatgattacatagg	440378	-	see also 10352 line
53514	SYT10	NM_198992.1	1661	tacgatagggttagcacacaatga	440379	-	see also 10352 line
53515	SYT5	NM_003180.1	1417	cocctattacaacgaagcttca	331244	-	see also 23696 line
53516	SYT5	NM_003180.1	1408	cactcgaacccctattacaacg	331243	-	see also 23696 line
53517	SYT12	NM_032379.2	1752	tccccaatacttgatgaagc	400096	-	see also 9177 line
53518	SYT12	NM_032379.2	1181	tacatttaagcgaatgatttc	400083	-	see also 9177 line
53519	T1	NM_031466.3	2266	gacgactggaaacgactacttga	397125	-	see also 23698 line
53520	T1	NM_031466.3	2262	cgacagcactggaaacgactact	397124	-	see also 23698 line
53521	T2BP	NM_052864.2	472	cagggttcccgaggttcagtttc	404500	-	see also 23699 line
53522	T2BP	NM_052864.2	668	aagatggcggatcattggcattt	404507	-	see also 23699 line
53523	T3JAM	NM_025228.1	388	ggcgtgcgcgtcccaatggacc	394464	-	see also 8885 line
53524	T3JAM	NM_025228.1	1314	caggccctgcgatttttggaaa	394474	-	see also 8885 line
53525	TA-LRRP	NM_015350.1	882	tgcgctctgtacgagaacacgc	351765	-	see also 23701 line
53526	TA-LRRP	NM_015350.1	2932	ctccctgtaacagaacgtttaca	351816	-	see also 23701 line
53527	TA-LRRP	NM_015350.1	2213	cocggtatcccaagttgttaca	351797	-	see also 23701 line
53528	TA-	NM_032721.2	953	ggccatctggcccttaacgttg	401255	-	see also 23702 line
53529	TA-	NM_032721.2	52	gocaaagcctcggatgaacacg	401251	-	see also 23702 line
53530	TAB3	NM_152787.2	1103	cacatcacctcggtagtagacaa	421240	-	see also 23703 line
53531	TAB3	NM_152787.2	1101	tgcacatacctcggtagtagaca	421239	-	see also 23703 line

1408

図46 (続き)

53532	TAFIL	NM_153809.1	867	gtgttagctcttactatcttt	423897	-	see also 23704 line
53533	TAFIL	NM_153809.1	4441	tccgtgaaatgtggaatgc	423899	-	see also 23704 line
53534	TAFIL	NM_024885.1	684	tggcattaccgccaccttaaga	391703	-	see also 23705 line
53535	TAFIL	NM_024885.1	594	ctgcctactactctactata	391700	-	see also 23705 line
53536	TAF2	NM_178539.2	1260	ttcttcggaatggaagatgg	431154	-	see also 23706 line
53537	TAF2	NM_178539.2	1183	atgttggaatctcaatagtg	431153	-	see also 23706 line
53538	TAGAP	NM_054114.3	351	cacaatcttcaaaacactaaa	406064	-	see also 23707 line
53539	TAPBP-R	NM_018009.3	991	caggacgagggaactacattg	365243	-	see also 23708 line
53540	TAPBP-R	NM_018009.3	391	gaggacttcaaccgatttccaaagg	365240	-	see also 23708 line
53541	TARSH	NM_015429.2	1109	cactacgtctagtcattagatg	352673	-	see also 6413 line
53542	TARSH	NM_015429.2	1107	ccactacgtctagtcattaga	352672	-	see also 6413 line
53543	TARSH	NM_015429.2	1583	accggctcccggttaaaacaaat	352690	-	see also 6413 line
53544	TBCID4	NM_014832.1	3786	aacacgtactcgtatgaatgc	344373	-	see also 6041 line
53545	TBCID4	NM_014832.1	1714	gcccgtgacactcttgcataag	344330	-	see also 6041 line
53546	TBCID5	NM_014744.1	2849	ccattcactggggatgtacact	342954	-	see also 5940 line
53547	TBCID5	NM_014744.1	3614	aggttccctcggtttaaccaga	342973	-	see also 5940 line
53548	TBCID7	NM_016495.2	803	ttgtagctgtgaaattttatta	357882	-	see also 23712 line
53549	TBCID7	NM_016495.2	367	ctgaaagctgttcgtttgttag	357887	-	see also 23712 line
53550	TBL1Y	NM_033284.1	1820	tgcattgctcacgactctcagg	403664	-	see also 23713 line
53551	TBL1Y	NM_033284.1	1333	ggcagcagctcccaagtaataa	403659	-	see also 23713 line
53552	TBN	NM_138572.1	281	gcccacactgcctgatatgtgg	408487	-	see also 23714 line
53553	TBN	NM_138572.1	90	aaccctgcggaactatcatct	408485	-	see also 23714 line
53554	TGBA1	NM_153355.2	717	tacaactacagcctatgtacatg	423031	-	see also 23715 line
53555	TGBA1	NM_153355.2	335	tgggttaactggaatgtgtgt	423025	-	see also 23715 line
53556	TGB3L	NM_016427.1	1858	gacgaattacagggaatcattg	357442	-	see also 23716 line
53557	TGB3L	NM_016427.1	2112	cccgaagaatgggagatcaagc	357446	-	see also 23716 line
53558	TOERGIL	NM_174937.1	1138	gacggcgatgacccgagtttct	428744	-	see also 23717 line
53559	TOERGIL	NM_174937.1	1140	cgggagatgacccgagtttcttc	428745	-	see also 23717 line
53560	TOERGIL	NM_174937.1	1141	ggggagatgacccgagtttctct	428746	-	see also 23717 line
53561	TOF7L2	NM_030756.1	1218	atgtcggctcactccatagtica	394883	-	see also 8933 line
53562	TOF7L2	NM_030756.1	946	tccagatatatcccgtattacc	394878	-	see also 8933 line
53563	TCTA	NM_022171.1	499	cagcaaacgaacctctcaaaacc	382591	-	-
53564	TCTE3	NM_174910.1	604	gacagctgggtcgagctaaca	428645	-	see also 23718 line
53565	TCTE3	NM_174910.1	508	taccaccgtataagtcattat	428641	-	see also 23718 line
53566	TD-60	NM_018715.1	506	accaaaggagcggtcaacttga	372813	-	see also 23719 line
53567	TD-60	NM_018715.1	621	accgcaatctcggtcagaattg	372815	-	see also 23719 line
53568	TD-60	NM_018715.1	505	caccagagagcggtcaaaacttg	372812	-	see also 23719 line
53569	TEAD1	NM_021961.2	1492	gcccattgtatcgcgaataaac	381662	-	see also 8217 line
53570	TEAD1	NM_021961.2	561	ccggacatcgagcaaaagcttca	381643	-	see also 8217 line
53571	TEB4	NM_005885.2	2044	cagccttacccgacatttaaa	334405	-	see also 4093 line
53572	TEB4	NM_005885.2	2046	gocctaacccgacatttaaat	334407	-	see also 4093 line
53573	TECTB	NM_058222.1	122	tcccggagtgctcctatgagatgg	406219	-	see also 9502 line
53574	TECTB	NM_058222.1	688	accgtcgtgcatgagatagg	406235	-	see also 9502 line
53575	TES	NM_015641.2	1296	tgcagagggtgacctataacaat	354845	-	see also 23723 line

small cell lung cancer(肺癌)、leukemia(白血病)

図46 (続き)

1409

53576	TES	NM_015641.2	1299	agcgggtgacccataaacaatttc	354847	-	see also 23723 line
53577	TESSP1	NM_183379.1	662	agccctctagccgtagtatgac	435829	-	see also 23724 line
53578	TESSP1	NM_183379.1	422	ttggggtttacgcagtagacatt	435826	-	see also 23724 line
53579	TESSP1	NM_183379.1	663	ggcctctagccgtagtatgac	435830	-	see also 23724 line
53580	TESSP2	NM_182702.1	173	cccaactcaattgtttacgtcc	434880	-	see also 23725 line
53581	TESSP2	NM_182702.1	396	ggagagatggaggtgtctataatg	434884	-	see also 23725 line
53582	TEX11	NM_031276.1	748	tacggctattagccacgaattat	396306	-	see also 23726 line
53583	TEX11	NM_031276.1	400	tggagcaattatagctcaaat	396296	-	see also 23726 line
53584	TEX12	NM_031275.2	363	ttctcgacagagagtttacagt	396275	-	see also 9000 line
53585	TEX13A	NM_031274.2	920	gtcgaaacagccacatttatt	396265	-	see also 23727 line
53586	TEX13A	NM_031274.2	921	togaacagccacatttatttc	396266	-	see also 23727 line
53587	TEX13B	NM_031273.1	188	ccgagttctacttcgagaata	396255	-	see also 23728 line
53588	TEX13B	NM_031273.1	816	aagatctgaagtcagtaaca	396261	-	see also 23728 line
53589	TEX15	NM_031271.2	5614	aacgagcagtagctgttaaat	396176	-	see also 8996 line
53590	TEX15	NM_031271.2	4826	atcatagcccttagtgaat	396148	-	see also 8996 line
53591	TEX15	NM_031271.2	3782	agcgaaactgacgtactata	396115	-	see also 8996 line
53592	TEX261	NM_144582.1	17	ttctccacgctgactgtagg	409961	-	see also 23730 line
53593	TEX261	NM_144582.1	138	tgtcgacctgccttaactc	409963	-	see also 23730 line
53594	TEX261	NM_144582.1	279	ttgcgtttttgtgtaacttcg	409970	-	see also 23730 line
53595	TFB2M	NM_022366.1	211	agcggcagcgaagcatttgc	382669	-	see also 23731 line
53596	TFB2M	NM_022366.1	330	tagacttaagcgttaactaac	382671	-	see also 23731 line
53597	TFPT	NM_013342.1	981	ttctcggggtccagacaactgc	338778	-	see also 23732 line
53598	TFPT	NM_013342.1	735	ccagcgaatggcggaatagc	338777	-	see also 23732 line
53599	TGM6	NM_198994.1	1287	ggcggagcgtgtatactaaac	440397	-	see also 23733 line
53600	TGM6	NM_198994.1	1286	agcggagcgtgtatactaaac	440396	-	see also 23733 line
53601	TGM6	NM_198994.1	936	cagggctgtgtcaactcaac	440393	-	see also 23733 line
53602	TGS	NM_173083.2	728	tacgagtggtttcttcaaat	424726	-	see also 10061 line
53603	TGS	NM_173083.2	673	tgttttcattagtaactgc	424723	-	see also 10061 line
53604	THIL	NM_016397.2	547	ttcacccgttaagctatttctga	357341	-	see also 6847 line
53605	THIL	NM_016397.2	1608	ttcacctattgcctattttgtca	357364	-	see also 6847 line
53606	THAP10	NM_020147.2	603	aaccocatgctgataatccatct	375696	-	see also 23736 line
53607	THAP10	NM_020147.2	707	caccgtagtggtggtattcaagc	375701	-	see also 23736 line
53608	THAP4	NM_015963.3	720	atctggagcgtgcgaatttctgc	355643	-	see also 23737 line
53609	THAP4	NM_015963.3	716	caggatctggggcgtgcgaattt	355641	-	see also 23737 line
53610	THAP9	NM_024672.2	414	ggaggaccataactatagtttaa	388842	-	see also 23738 line
53611	THAP9	NM_024672.2	1374	cagcaccctgtggagtagtagc	388877	-	see also 23738 line
53612	THOC3	NM_032361.1	912	ggcgtcagcatcgggaagcaatt	399990	-	see also 9174 line
53613	THOC3	NM_032361.1	859	aggttgattggcctgtaagac	399989	-	see also 9174 line
53614	THSD1	NM_018676.2	904	ggcggagactagcttaactcc	372506	-	see also 23740 line
53615	THSD1	NM_018676.2	1940	cagcgtcccttagatttgaaa	372520	-	see also 23740 line
53616	THSD2	NM_032784.2	801	aacacgggtccgagaaataac	401500	-	see also 9282 line
53617	THSD2	NM_032784.2	804	acgggtccgagaaataacagc	401501	-	see also 9282 line
53618	THY28	NM_014174.2	974	cagtttttcgagtagtaaacg	339856	-	see also 5524 line
53619	THY28	NM_014174.2	563	aactaaggtgagcattagtaa	339847	-	see also 5524 line

図46 (続き)

1410

53620	TIC	NM_012455.1	1501	ttgccaaatggacactagatgc	338225	-	see also 23743 line
53621	TIC	NM_012455.1	1152	acogtggagcgaacattga	338224	-	see also 23743 line
53622	TIGA1	NM_053000.1	558	aacggagagcttcgctattgt	405591	-	see also 23744 line
53623	TIGA1	NM_053000.1	539	ctcgggtccacggtttggaacg	405590	-	see also 23744 line
53624	TIGD2	NM_145715.1	252	tcogtgggttacggaattgtga	414718	-	see also 23745 line
53625	TIGD2	NM_145715.1	442	ttccagatccgggaacgattgt	414727	-	see also 23745 line
53626	TIGD3	NM_145719.1	288	atctgcgcatctgcaagaataa	414760	-	see also 23746 line
53627	TIGD3	NM_145719.1	1502	caottctctgagctattorgaaa	414772	-	see also 23746 line
53628	TIP120A	NM_018448.2	3789	agccattacgtgcaacattgaca	371693	-	see also 23747 line
53629	TIP120A	NM_018448.2	1853	tagtaattcctctgtaaccattc	371625	-	see also 23747 line
53630	TJP1	NM_003257.2	2608	tgcaagtatgcttctaactatg	331372	-	see also 2201 line
53631	TJP1	NM_003257.2	5379	cagcccgagggcatatttaacagc	331450	-	see also 2201 line
53632	TJP3	NM_014428.1	268	tcogctgttgccattcaagatact	340648	-	see also 23749 line
53633	TJP3	NM_014428.1	267	ctcgggttgccattcagataac	340647	-	see also 23750 line
53634	TJP4	NM_080604.1	431	atcggagagctgctgttggaaatt	406396	-	see also 23750 line
53635	TJP4	NM_080604.1	641	tggacaataatgaaggataagttc	406398	-	see also 23750 line
53636	TLK2	NM_006852.1	498	cccttaccgcgacgagtagaaca	336476	-	see also 4796 line
53637	TLX3	NM_021025.1	731	aacacgacgctctccaaagagc	380366	-	see also 8069 line
53638	TM4SF10	NM_031442.2	597	gaactgttgctgctatgcttttt	397014	-	see also 9030 line
53639	TM43	NM_181841.1	2893	cccaggaaacgtgcgacaatatgc	433792	-	see also 23753 line
53640	TM43	NM_181841.1	2861	aacgcacatcggaagatgacact	433785	-	see also 23753 line
53641	TM44	NM_144686.1	960	agcgacatcttctacgaatta	411311	-	see also 23754 line
53642	TM44	NM_144686.1	1284	ctcggagtcgcccagatgctttt	411313	-	see also 23754 line
53643	TM44	NM_144686.1	50	aacccgacctggaaatcagaagc	411307	-	see also 23754 line
53644	TM45	NM_024780.3	2491	ttgaacttgcatatagaagatca	390627	-	see also 8744 line
53645	TM45	NM_024780.3	2488	gtcttgacttgcatctagaaga	390626	-	see also 8744 line
53646	TM47	NM_024847.2	2170	gtcgtgacaagtgtctacctaact	391413	-	see also 8783 line
53647	TM47	NM_024847.2	1344	atccgctataggatattctcc	391395	-	see also 8783 line
53648	TM47	NM_181744.1	202	gaocccgtgaaataatgactatc	433068	-	see also 10251 line
53649	TM47	NM_181744.1	387	agccctggatcatatttgaaat	433075	-	see also 10251 line
53650	TM47	NM_031418.1	3263	cccgagcaactgacatagatgc	396844	-	see also 23758 line
53651	TM47	NM_031418.1	1457	gcccgcataatctgtttataaa	396779	-	see also 23758 line
53652	TM47	NM_178826.2	1596	gaocggagcagtaattgcttat	431814	-	see also 10214 line
53653	TM47	NM_178826.2	2646	ctcgttggtgtgcttataag	431859	-	see also 10214 line
53654	TM47	NM_147196.1	555	ggacacagtgggcaatcaagtaga	415097	-	-
53655	TM47	NM_147196.1	325	ggcagctggtgggcatcttttcg	415094	-	see also 53654 line
53656	TM47	NM_147196.1	557	cacagtggtgcccacaaagtagagg	415098	-	see also 53654 line
53657	TM47	NM_031925.1	700	acggctctatgtaccagaaattc	397389	-	see also 23760 line
53658	TM47	NM_031925.1	426	ctgagcaacagcagctaatgttc	397387	-	see also 23761 line
53659	TM47	NM_024309.2	1134	cgcgcagcattagagctattg	386224	-	see also 23761 line
53660	TM47	NM_024309.2	992	atcgggaacggcgtcgaagttagg	386220	-	see also 23761 line
53661	TM47	NM_024873.2	849	atcgggagcagagagacttaac	391602	-	see also 23762 line
53662	TM47	NM_024873.2	220	caggggacacataagaattgac	391590	-	see also 23762 line
53663	TM47	NM_015575.1	4002	atcatcgagcagcactcaacatagg	354185	-	see also 6488 line

1411

図46 (続き)

53664	TNRC15	NM_015575.1	1190	aagaaccgcatagaagcaataaag	354128	-	see also 6488 line
53665	TNRC5	NM_006586.2	512	gggttcgcctgcgcgaagaaatgc	335811	-	see also 23763 line
53666	TNRC5	NM_006586.2	531	atgcgaagtgtgtaaatatttg	335812	-	see also 23763 line
53667	TNT	NM_182831.1	205	ttcaaaaggcagccttatatag	435370	-	see also 23764 line
53668	TNT	NM_182831.1	438	ctcagagagccctgaaggtgac	435372	-	see also 23764 line
53669	TOR2A	NM_130459.1	297	accggcaacaggaaatctatgt	406913	-	see also 23765 line
53670	TOR2A	NM_130459.1	296	gaccggcaacggcaaatctatg	406912	-	see also 23765 line
53671	TOR3A	NM_022371.2	864	ctcagggcgatataatacaatga	382741	-	see also 23766 line
53672	TOR3A	NM_022371.2	917	gtccgggaagaataatcagatgg	382744	-	see also 23766 line
53673	TP53NP1	NM_033285.2	979	gcttcgtcgcaaaatcttaac	403686	-	see also 9396 line
53674	TP53TG3	NM_016212.1	377	gocgaggggtgttaagtttttc	356574	-	see also 23768 line
53675	TP53TG3	NM_016212.1	127	aactccggaaacgggtgaagacg	351857	-	see also 23768 line
53676	TP53TG3	NM_015369.1	256	ggctagtttcaacctgtaattgt	351859	-	-
53677	TRAG3	NM_004909.1	226	taccacaagactaacataaaat	333244	-	see also 23769 line
53678	TRALPUS	NM_053002.2	2700	agggcgctatcacagtgtctaat	405679	-	see also 9475 line
53679	TRALPUS	NM_053002.2	3227	gtgggggttaatgatgtacttt	405695	-	see also 9475 line
53680	TRAP25	NM_080651.1	417	gtcagcaactatttccatattgt	406517	-	see also 23771 line
53681	TRAP25	NM_080651.1	472	ctgggccacctgtttgttgtat	406519	-	see also 23771 line
53682	TRAPPO6	NM_177452.2	221	tggcgagatggagggcgtgttttg	429866	-	see also 23772 line
53683	TRAPPO6	NM_177452.2	513	cgagatggccttatacaaatgg	429880	-	see also 23772 line
53684	TREM4	NM_145273.2	380	ccccgatgagctttactgatct	414078	-	see also 23773 line
53685	TREM4	NM_145273.2	379	gccccgatgagctttactgatc	414077	-	see also 23773 line
53686	TREM4	NM_145273.2	892	cacagagaaacagagagttctgc	414079	-	see also 23773 line
53687	TREML1	NM_178174.2	301	tgcctgagagtggaataggttacc	430606	-	see also 23774 line
53688	TREML1	NM_178174.2	877	ctgtgacatatgccacagtaatc	430610	-	see also 23774 line
53689	TRF3	NM_199047.1	1001	aaccagaaatgttgttgatttc	440628	-	see also 23775 line
53690	TRF3	NM_199047.1	223	tccaatccggatatactgcatttaa	440614	-	see also 23775 line
53691	TRF3	NM_199047.1	1002	accagaaatgttgtcttatct	440629	-	see also 23775 line
53692	TRIF	NM_014261.1	577	accagagcgaactccaactttct	339991	-	see also 23776 line
53693	TRIF	NM_014261.1	1528	cagggtgcacacccctcattatc	339997	-	see also 23776 line
53694	TRIK	NM_181840.1	463	ctggcaacatcttatctacatc	433726	-	see also 23777 line
53695	TRIK	NM_181840.1	464	tggcaacatcttatctacatct	433727	-	see also 23777 line
53696	TRIP	NM_005879.2	964	gactgtgacgcgctgtgttttag	334333	-	see also 23778 line
53697	TRIP	NM_005879.2	1366	cgggtggcgggacaaaattcatcc	334344	-	see also 23778 line
53698	TRIP	NM_005879.2	1362	ggctcgtgggtggcggacaaaatc	334342	-	see also 23778 line
53699	TRIPIN	NM_152524.1	382	ttcttcgctaagactaaataac	417566	-	see also 23779 line
53700	TRIPIN	NM_152524.1	1779	aacctagacgctcaaaatgaatt	417603	-	see also 23779 line
53701	TSARG1	NM_139073.2	164	cccagcatgctagctccaattcc	409326	-	see also 23780 line
53702	TSARG2	NM_144644.2	859	ctctggcggcagataataattaa	410705	-	see also 23781 line
53703	TSARG2	NM_144644.2	861	ctggcggcagataataataaaa	410706	-	see also 23781 line
53704	TSARG2	NM_144644.2	857	gcctctggcggcagataataatt	410704	-	see also 23781 line
53705	TSARG6	NM_153614.2	776	ctcgggatcactcgcgaattcaga	423400	-	see also 23782 line
53706	TSARG6	NM_153614.2	823	cgcgagactcgccttaagcacc	423402	-	see also 23782 line
53707	TSGA13	NM_052933.2	732	agggataagacttactgattatg	405374	-	see also 23783 line

1412

図46 (続き)

53708	TSGA13	NM_052933.2	572	gtcgggcaatacaaaattgtct	405365	-	see also 23783 line
53709	TSGA14	NM_018718.1	886	ctgggtctgccggaaacgaccc	372924	-	see also 23784 line
53710	TSGA14	NM_018718.1	797	ttcggaggtotaaagttcttag	372921	-	see also 23784 line
53711	TSL2	NM_145296.1	949	ggaggcgctctactgtctgtg	414263	-	see also 23785 line
53712	TSL2	NM_145296.1	394	tgccacgctcaactgtactgtg	414258	-	see also 23785 line
53713	TSLP	NM_033035.2	467	tgccggtcgtcgcccaagaata	402664	-	see also 23786 line
53714	TSLP	NM_033035.2	469	cgggtcgtcgcccaagaatagt	402666	-	see also 23786 line
53715	TSLRP	NM_012472.3	1088	aacttactcgtgagtaataatga	338265	-	see also 5348 line
53716	TSLRP	NM_012472.3	1085	accaacttactcgtgagtaataga	338264	-	see also 5348 line
53717	TSLRP	NM_012472.3	1092	tactgtcgtgagtaataataagg	338266	-	see also 5348 line
53718	TSNAXIP1	NM_018430.1	1577	gtcagaacgaggggctactaac	371359	-	see also 23788 line
53719	TSNAXIP1	NM_018430.1	1714	ctcaactaccgtcactgtttat	371360	-	see also 23788 line
53720	TSNAXIP1	NM_018430.1	2027	agcggcttcaggtgattgacac	371361	-	see also 23788 line
53721	TSP-NY	NM_032573.2	1688	ctgccaccgaggaacttcataa	400803	-	see also 23789 line
53722	TSP-NY	NM_032573.2	1689	tgccaccgaggaacttcataat	400804	-	see also 23789 line
53723	TSRC1	NM_019032.2	1135	ggagagacgcccgtgactcttcc	374563	-	see also 23790 line
53724	TSRC1	NM_019032.2	1901	ggggagccgtcttcgataaac	374569	-	see also 23790 line
53725	TSSC1	NM_003310.1	479	cacgagtcctcgtgattcacc	331501	-	see also 23791 line
53726	TSSC1	NM_003310.1	476	agccacgagtcctcgtgattc	331499	-	see also 23791 line
53727	TSSC4	NM_005706.2	228	aacacggagcggagtagacacg	334178	-	see also 23792 line
53728	TSSC4	NM_005706.2	404	gcacagtgagcagcattccatct	334179	-	see also 23792 line
53729	TTC11	NM_016008.1	171	gtccaagagcagcaggttgagt	356179	-	see also 23793 line
53730	TTC13	NM_024525.2	2525	aacgttaagatcgtattgagg	356702	-	see also 23794 line
53731	TTC13	NM_024525.2	1445	aggggttcaaacccacataaaag	356676	-	see also 23794 line
53732	TTC15	NM_024525.2	2071	atggattcaaatcagattaca	356693	-	see also 23794 line
53733	TTC15	NM_016030.5	1904	ggcgtatcattcgggttcaagt	356030	-	see also 23795 line
53734	TTC15	NM_016030.5	1894	tgccogtgggggcgtatcattcg	356028	-	see also 23795 line
53735	TTC4	NM_004623.2	164	gacgagagcggccatcagaattg	332628	-	see also 23796 line
53736	TTC4	NM_004623.2	253	aagaacagggcccaagaccataaa	332631	-	see also 23796 line
53737	TTC5	NM_138376.1	725	aacagggcgacgttcataaata	407802	-	see also 23797 line
53738	TTC5	NM_138376.1	727	caggcgagcgttgcatataatag	407803	-	see also 23797 line
53739	TTC8	NM_144596.1	1080	aagccatcgcattggaagc	410154	-	see also 9709 line
53740	TTF1	NM_007344.2	2299	gactaatgtcggcgctatctact	337455	-	see also 5081 line
53741	TTF1	NM_007344.2	1802	aggagatactcgttttagattaca	337436	-	see also 5081 line
53742	TTYH2	NM_032646.4	891	ctcgtactacctgtattgcagc	401171	-	see also 23801 line
53743	TTYH2	NM_032646.4	316	tgccgagggcgttggtttctatg	401165	-	see also 23801 line
53744	TU12B1-	NM_016575.1	312	tacaagcggcaggtattaatgaag	358194	-	see also 23802 line
53745	TU12B1-	NM_016575.1	1036	ggcggatttgaccctaaagcatg	358208	-	see also 23802 line
53746	TU12B1-	NM_016575.1	1330	gtcggcgttcgctgacatcaca	358215	-	see also 23802 line
53747	TUWD12	NM_172240.1	125	acccggttcctggagcgttatctc	424304	-	see also 23803 line
53748	TUWD12	NM_172240.1	564	accgagtggaagactaattgtgt	424322	-	see also 23803 line

1413

図46 (続き)

53749	TUWD12	NM_172240.1	126	ccccgttctggagcgttattca	424305	-	see also 23803 line
53750	UBAP1	NM_016525.3	328	agctaaatttggtctacattg	358014	-	see also 6900 line
53751	UBAP1	NM_016525.3	1543	gggcttgaacctcttttagtgg	358045	-	see also 6900 line
53752	UBAP2	NM_018449.2	2671	ggataggagccttagctataat	371759	-	see also 23805 line
53753	UBAP2	NM_018449.2	328	tagtggcctacatagtgaat	371714	-	see also 23805 line
53754	UBE4B	NM_006048.2	2874	gacccgcatacccgataaac	334741	-	see also 4208 line
53755	UBE4B	NM_006048.2	2875	accgcgatatcccgataaaca	334742	-	see also 4208 line
53756	UBE4B	NM_006048.2	2609	gcctagtggcgtcgctatcc	334735	-	see also 4208 line
53757	UBN1	NM_016936.2	1977	ctcaagcgtgctcggaaactca	358786	-	see also 23807 line
53758	UBN1	NM_016936.2	2504	gtcgtctacgaagcctgataaaa	358792	-	see also 23807 line
53759	UBN1	NM_016936.2	2505	tcgctacgaagcctgataaaa	358793	-	see also 23807 line
53760	UBPH	NM_019116.1	1327	tcggcatgtacataaatctgg	375288	-	see also 23808 line
53761	UBPH	NM_019116.1	1066	ctcgtcccgaggataaacatt	375275	-	see also 23808 line
53762	UBQLN1	NM_013438.2	364	ctccgaggagcccaaatcatga	338923	-	see also 5443 line
53763	UBQLN1	NM_013438.2	1345	tactactgcccgaatttggtcg	338936	-	see also 5443 line
53764	UBQLN1	NM_013438.2	797	atgcagcgcacaaatttgcata	338931	-	see also 5443 line
53765	UBQLN2	NM_013444.2	2000	ctcaacgcgaattgggtttctaa	338968	-	see also 5446 line
53766	UBQLN2	NM_013444.2	1291	caccgttctgcgcgttaattatg	338959	-	see also 5446 line
53767	UBXD1	NM_025241.1	1085	ggctgcgaagtacaaactacag	394517	-	see also 23811 line
53768	UBXD1	NM_025241.1	561	cgctccatcatgaagatctaca	394515	-	see also 23811 line
53769	UBXD2	NM_014607.2	929	ggcagctcgagaacgtataaac	341004	-	see also 23812 line
53770	UBXD2	NM_014607.2	928	ggcagctcgagaacgtataaaa	341003	-	see also 23812 line
53771	UBXD2	NM_014607.2	932	agctcgagaaagctataaaacagc	341005	-	see also 23812 line
53772	UNC93A	NM_018974.2	1160	tgccgtctggcagacacaaaca	373926	-	see also 23813 line
53773	UNC93A	NM_018974.2	813	ctgctgacttcaagctatatag	373918	-	see also 23813 line
53774	UNC93B1	NM_030930.1	599	ggcgcagagtaacctagtagt	395541	-	see also 8966 line
53775	UNC93B1	NM_030930.1	317	gacctaccgcgagggtgaagt	395535	-	see also 8966 line
53776	UNC93B1	NM_030930.1	259	gacctagaccacggacattacc	438790	-	see also 23815 line
53777	UNC93B1	NM_030930.1	179	tgctgtgctgctgaactaagc	438789	-	see also 23815 line
53778	UNC93B1	NM_030930.1	93	ttgctgcccctgctctttacc	437791	-	see also 23816 line
53779	UNC93B1	NM_030930.1	398	cggcacaggctcgcgaacaaacc	437793	-	see also 23816 line
53780	UNC93B1	NM_030930.1	636	gcccgtctccggtgagctttgg	439841	-	see also 23817 line
53781	UNC93B1	NM_030930.1	854	aagagcacccagccgcttttgg	439844	-	see also 23817 line
53782	UNC93B1	NM_030930.1	1143	tcggggaactttcaactctcc	439846	-	see also 23817 line
53783	UNC93B1	NM_030930.1	1360	ctggcctcttcgcaatgctagg	439597	-	see also 23818 line
53784	UNC93B1	NM_030930.1	1789	ccttgatctcctgagaaactcg	439607	-	see also 23818 line
53785	UNC93B1	NM_030930.1	729	gagcgtccggagcgagattatc	438475	-	see also 23819 line
53786	UNC93B1	NM_030930.1	399	cagagctccggagcaaacgaagc	438473	-	see also 23819 line
53787	UNC93B1	NM_030930.1	369	aagcagtgccctgtatcatt	438443	-	see also 23821 line
53788	UNC93B1	NM_030930.1	462	cagcaatttcaacaatgca	438446	-	see also 23821 line
53789	UNC93B1	NM_030930.1	262	agcaacgagggcagacattcaag	438409	-	see also 23822 line
53790	UNC93B1	NM_030930.1	872	ggggtagcccgagcattgttta	438425	-	see also 23822 line
53791	UNC93B1	NM_030930.1	804	tgagagactgcagatttaccatg	438804	-	see also 23823 line
53792	UNC93B1	NM_030930.1	811	gtgcagatttaccgactatt	438805	-	see also 23823 line

図46 (続き)

1414

53793	UNQ698	NM_198538.1	142	cagcgtgacccattgagaagg	439297	-	see also 23824 line
53794	UNQ698	NM_198538.1	617	gagctgcagaatgctcataatgg	439298	-	see also 23824 line
53795	UNQ739	NM_198570.1	1523	gcaatgtcacagagacataatg	439704	-	-
53796	UNQ739	NM_198570.1	1471	caccatagccactactactatg	439703	-	see also 53795 line
53797	UNQ8193	NM_198450.1	472	accagttcagtcctcctaataatt	437848	-	see also 10332 line
53798	UNQ8193	NM_198450.1	471	taccagttcagtcctcctaataat	437847	-	see also 10332 line
53799	UNQ9366	NM_198444.1	1505	aacacgacgggactacacacgc	437809	-	see also 23826 line
53800	UNQ9366	NM_198444.1	1910	ggcgtagaggcaattcttcacgc	437812	-	see also 23826 line
53801	UNQ9366	NM_198444.1	1015	aaggctcagactacttaaacact	437803	-	see also 23826 line
53802	UNQ9391	NM_198464.1	386	tggggacaaacgacttaactagc	438071	-	see also 23827 line
53803	UNQ9391	NM_198464.1	870	caactcgttggtgaactacaacc	438082	-	see also 23827 line
53804	UNRIP	NM_007178.2	335	cacgcgacccggtggtgatttag	337012	-	see also 23828 line
53805	UNRIP	NM_007178.2	848	gtctgttagtagtaggaataata	337014	-	see also 23828 line
53806	UPK3B	NM_030570.2	482	tgcctcacacaccacagataaaca	394674	-	see also 23829 line
53807	URB	NM_178274.2	942	tccgttagatcgagaaagatcagg	430651	-	see also 10183 line
53808	URB	NM_178274.2	2255	gagtagcgggaatgactacaatga	430665	-	see also 10183 line
53809	URG4	NM_017920.2	1407	acccgattggagagatttaacacgg	363970	-	see also 23831 line
53810	URG4	NM_017920.2	1155	acgtgggaagcgcaacacaaac	363967	-	see also 23831 line
53811	URG4	NM_017920.2	1046	atctctccgctgctgtttatatt	363966	-	see also 23831 line
53812	URP	NM_198152.1	81	ttgacactcaactttgttatoc	437152	-	see also 23832 line
53813	URP	NM_198152.1	247	cactgacactcccttaactaaca	437153	-	see also 23832 line
53814	USH1G	NM_173477.2	316	ctcgagtcgctgctgtctattgt	424945	-	see also 23833 line
53815	USH1G	NM_173477.2	1300	cctggagtagctcgacttagg	424949	-	see also 23833 line
53816	USH1G	NM_173477.2	1299	ggcctggagtagctcgacttag	424948	-	see also 23833 line
53817	VCIP135	NM_025054.3	418	gtgtcagggcggctgtatttttc	393256	-	see also 8835 line
53818	VCIP135	NM_025054.3	416	aagttcagggcggctgtattttt	393255	-	see also 8835 line
53819	VCIP135	NM_025054.3	529	cccgagcgtgtagctacacacc	393257	-	see also 8835 line
53820	VCY2IP1	NM_018174.3	148	ggcgtctgcaaccttgatgaaca	367994	-	-
53821	VCY2IP1	NM_018174.3	1406	ggcggagcggagagcaagagagc	367995	-	see also 53820 line
53822	VEST1	NM_052958.1	2106	cccctagctgctgaaatgctaca	405543	-	see also 23835 line
53823	VEST1	NM_052958.1	2006	ttcagatgaactcgtatagggaaa	405542	-	see also 23835 line
53824	VGL12	NM_153453.1	375	agccaaaccccgccagtgataaa	423277	-	see also 23836 line
53825	VGL12	NM_153453.1	376	ggccaaaccccgccagtgataaaa	423278	-	see also 23836 line
53826	VGL12	NM_153453.1	283	accagaatacgtctattatoc	423275	-	see also 23836 line
53827	VIT	NM_053276.2	573	tccaacggtgtccaatcgtatc	405943	-	see also 23837 line
53828	VIT	NM_053276.2	723	ggctatcagggccacattttcc	405948	-	see also 23837 line
53829	VMP	NM_080723.2	804	cacacccagccgggttaacaagg	406675	-	-
53830	VMP	NM_080723.2	802	cccacccagccgggttaacaaga	406674	-	see also 53829 line
53831	VMP	NM_080723.2	428	agcctcaatttgggagtagtggg	406672	-	see also 53829 line
53832	VMP1	NM_030938.2	592	cacctatcctcgtacagattatt	395605	-	see also 8971 line
53833	VMP1	NM_030938.2	925	ttgatctgctgtaataacgtgt	395618	-	see also 8971 line
53834	VprBP	NM_014703.1	3296	ggcgcaagcgccaataaacattt	342521	-	see also 23839 line
53835	VprBP	NM_014703.1	3302	aagcgccaataaacatttactca	342525	-	see also 23839 line
53836	VP52	NM_022553.3	1542	agcgctagggggattggatact	383570	-	see also 23840 line

図46 (続き)

1415

53837	VPS52	NM_022553.3	1208	cactacgcccctctagacaattc	383565	-	see also 23840 line
53838	VPS54	NM_016516.1	252	aacgactctagattagcaaaag	357911	-	see also 6888 line
53839	VPS54	NM_016516.1	1677	tcggcgccaggaatgtactactga	357942	-	see also 6888 line
53840	VR22	NM_013266.1	565	tcgggtacgagactccttatcc	338503	-	see also 23841 line
53841	VR22	NM_013266.1	1623	agcgtaactgggagaatcata	338527	-	see also 23841 line
53842	VR22	NM_013266.1	2421	ctggcgagattgtctaatcagtc	338548	-	see also 23841 line
53843	WAC	NM_016628.2	1832	tacgggaagagcacaacatg	358667	-	see also 23842 line
53844	WAC	NM_016628.2	1720	gcccgatccagtggttcattac	358665	-	see also 23842 line
53845	WBP2	NM_012478.2	288	gccgtatttggtgcaaacata	338288	-	see also 5354 line
53846	WBP2	NM_012478.2	504	ccggcagtcgccaatggaatgt	338290	-	see also 5354 line
53847	WBSOR20	NM_018044.2	81	ggcgccgacagggctctatcaagg	365765	-	see also 23844 line
53848	WBSOR27	NM_152559.2	550	ctcgtcaaaccttcaatacaagg	418110	-	-
53849	WBSOR27	NM_152559.2	487	tgcgataccttgagctacatgca	418109	-	see also 53848 line
53850	WBSOR28	NM_182504.2	119	accgagatcaacctataattc	433990	-	see also 23845 line
53851	WBSOR28	NM_182504.2	118	aaccgagatcaacctataattc	433989	-	see also 23845 line
53852	WDR10	NM_018262.2	2188	acctggcgttgaaatgtacacc	369384	-	see also 7347 line
53853	WDR10	NM_018262.2	293	ggctggcgggaagcagattactgg	369351	-	see also 7347 line
53854	WDR12	NM_018256.2	1164	gtgggatcccggaactaaagatg	369273	-	see also 23847 line
53855	WDR12	NM_018256.2	1199	cgctgtccctaacgtcacatct	369276	-	see also 23847 line
53856	WDR17	NM_170710.2	347	atcagttggatcacccgttataat	423969	-	see also 10024 line
53857	WDR17	NM_170710.2	382	caacgaattatgttgaacataa	423973	-	see also 10024 line
53858	WDR18	NM_024100.2	587	tggaccacagacgtggaagctatgg	386029	-	see also 23849 line
53859	WDR18	NM_024100.2	1007	tgcgcgtgccccactcaacaaag	386030	-	see also 23849 line
53860	WDR20	NM_144574.2	498	cacggattacctgtgtcaaatgg	409865	-	see also 9702 line
53861	WDR20	NM_144574.2	552	cccactcagtgaggaaacatgtac	409867	-	see also 9702 line
53862	WDR20	NM_144574.2	806	gagctgcacgagtagcagatgaag	409876	-	see also 9702 line
53863	WDR7	NM_015285.1	2484	acccactgcacccgtatcgtttg	351091	-	see also 23851 line
53864	WDR7	NM_015285.1	2485	ccccactgcacccgtatcgtttg	351092	-	see also 23851 line
53865	WDR8	NM_017818.2	242	gtcggcagactcgtcttcaccc	362717	-	see also 23852 line
53866	WDR8	NM_017818.2	437	gtgcacaaaatccgtgtcttaca	362719	-	see also 23852 line
53867	WFC10B	NM_172131.2	186	agcgaccagcatagatctatgc	424207	-	see also 23853 line
53868	WFC10B	NM_172131.2	182	gagaagcgaccagcatagatct	424205	-	see also 23853 line
53869	WFC11	NM_147197.2	341	aagaattgaocaaataagttctt	415099	-	see also 23854 line
53870	WFC11	NM_147197.2	360	tctaaagcctttagatgtaaag	415100	-	see also 23854 line
53871	WFC13	NM_172005.1	177	tcccaagcagcgtgttctgaagt	424200	-	see also 23855 line
53872	WFC13	NM_172005.1	182	agcagcgtgttctgaagtatct	424202	-	see also 23855 line
53873	WFC6	NM_080827.1	114	tccgtgtaccattcatctttg	406791	-	see also 23856 line
53874	WFC6	NM_080827.1	109	gccaatcgtgtaccattcatctcc	406790	-	see also 23856 line
53875	WFC6	NM_080827.1	311	gtcagccttatttataccataa	406795	-	see also 23856 line
53876	WFC9	NM_147198.2	392	gacttggtaactgcacaacata	415107	-	see also 23857 line
53877	WFC9	NM_147198.2	453	aacgaagcgccttcaaatcaat	415109	-	see also 23857 line
53878	WFC9	NM_147198.2	460	agcccttaatacaatgctaaac	415112	-	see also 23857 line
53879	WINS1	NM_018148.3	405	cccggtattgtctgcaaaccc	367688	-	see also 23858 line
53880	WINS1	NM_018148.3	404	acccggattgtctgtcacaac	367687	-	see also 23858 line

1416

図46 (続き)

53881	WINS1	NM_018148.3	1225	cactgtccagatcatgtgatcc	367708	-	see also 23858 line
53882	WIRE	NM_133264.2	76	cagcccaagctagtagatga	407159	-	see also 9562 line
53883	WIRE	NM_133264.2	470	cggacctctctcggcctaatacc	407163	-	see also 9562 line
53884	WTAP	NM_004908.3	244	cccaagaagcttgctgattgagta	333212	-	see also 23860 line
53885	WTAP	NM_004908.3	283	atggcaagagatgagtaattct	333214	-	see also 23860 line
53886	WWP2	NM_007014.3	1931	ggcgtgtacctggaagtgca	336776	-	see also 4892 line
53887	WWP2	NM_007014.3	1455	agcgaaggagtcgatactttgt	336764	-	see also 4892 line
53888	XPO5	NM_020750.1	2213	accggtgcacagtagctttgt	378513	-	see also 7939 line
53889	XPO5	NM_020750.1	1405	aggtggcatctgtttggatcc	378495	-	see also 7939 line
53890	XTP2	NM_015172.2	6857	gcctaacacccgtgctactaata	348862	-	see also 23864 line
53891	XTP2	NM_015172.2	5569	ctccacttcggcaaccttaact	348840	-	see also 23864 line
53892	XTP3TPA	NM_024096.1	478	agctctccccaagttatacaga	386003	-	-
53893	XTP3TPA	NM_024096.1	483	ttcccgcaagtatacagaattgc	386004	-	see also 53892 line
53894	XTP3TPB	NM_015701.2	1050	atccacaagtcgattgctatgg	355174	-	see also 6537 line
53895	XTP3TPB	NM_015701.2	483	gagttatttgacttactgaagt	355162	-	see also 6537 line
53896	YPEL1	NM_013313.3	584	cagctcgggtggaaatacagc	338703	-	see also 23867 line
53897	YPEL1	NM_013313.3	581	ggaccaagctcgggtggaaatacg	338702	-	see also 23867 line
53898	Z391G	NM_007268.1	573	ttgtataagcaacagactaata	337370	-	see also 23868 line
53899	Z391G	NM_007268.1	416	aagtcgtgagagataagattact	337367	-	see also 23868 line
53900	ZA20D1	NM_020205.1	693	aacagcagggcgtttgaactgg	376142	-	see also 23869 line
53901	ZA20D1	NM_020205.1	2505	accgaagtcgattcctatagc	376153	-	see also 23869 line
53902	ZAR1	NM_175619.1	1101	ccttacccgagggaggatca	429165	-	see also 23870 line
53903	ZAR1	NM_175619.1	1035	gtgtgtacagggaaactacaagg	429161	-	see also 23870 line
53904	ZBTB1	NM_014950.1	1921	gtctagctgttagatcaagata	346320	-	see also 23871 line
53905	ZBTB1	NM_014950.1	1458	ggagtggttagagaaataaggg	346305	-	see also 23871 line
53906	ZCWCC2	NM_024657.2	2230	atcgggtatgactcaagaacagt	388660	-	see also 8681 line
53907	ZCWCC2	NM_024657.2	1515	aggttagcaacaccataacaaag	388648	-	see also 8681 line
53908	ZCWPPW1	NM_017984.2	1671	cocattcgaagcaggtcaaaat	365092	-	see also 23873 line
53909	ZCWPPW1	NM_017984.2	1528	ggcgaatcaacgggtctaacagt	365087	-	see also 23873 line
53910	ZD52F10	NM_033317.2	1224	gacgtctcctgggtgttttaact	403691	-	see also 23874 line
53911	ZD52F10	NM_033317.2	359	ggcagctgggtcttaagtcagt	403688	-	see also 23874 line
53912	ZDHH14	NM_024630.2	1053	aactcgtagaacaggtttgatca	388286	-	see also 8672 line
53913	ZDHH14	NM_024630.2	671	cggcgagacgggcgtctctaac	388281	-	see also 8672 line
53914	ZDHH14	NM_024630.2	107	gtcgtctctgtgctctactatgc	412013	-	see also 9748 line
53915	ZDHH15	NM_144969.1	854	ttctgttaatacctattggttc	412028	-	see also 9163 line
53916	ZDHH16	NM_032327.2	352	ggcagtgacacccgtgttgatgc	399746	-	see also 9163 line
53917	ZDHH16	NM_032327.2	1126	aaggcagagattattaggaatcc	399764	-	see also 9163 line
53918	ZDHH16	NM_032327.2	665	gttagggcctccataactgaccc	431319	-	see also 10200 line
53919	ZFP106	NM_022473.1	2660	ggcaaccctacggcagattctaa	383108	-	see also 23878 line
53920	ZFP106	NM_022473.1	5743	aggcagtaggcttaattctgatg	383203	-	see also 23878 line
53921	ZFP276	NM_152287.2	757	ggcaagactacacccattgatacc	415365	-	see also 9830 line
53922	ZFP42	NM_174900.1	372	agcgcgtgtggccttatgtga	428554	-	see also 23880 line
53923	ZFP42	NM_174900.1	1129	tcctaacgcgtacaaatacgaac	428573	-	see also 23880 line
53924	ZFP42	NM_174900.1	465	tgggtcataagggtgagtttttc	428559	-	see also 23880 line

図46 (続き)

1417

53925	ZFP91	NM_053023.2	433	gagtcgcgaactctctatgcatag	405798	-	see also 23881 line
53926	ZFP91	NM_053023.2	1236	gtgtcgcggccttaagagttcc	405808	-	see also 23881 line
53927	ZFP91	NM_153813.1	456	ctcccagcgcagatgttaactca	423923	-	see also 23882 line
53928	ZFP91	NM_153813.1	458	ccagcgcagatgttaactcacc	423924	-	see also 23882 line
53929	ZG16	NM_152338.1	76	tcctctatagtggagagatgg	415712	-	see also 23883 line
53930	ZG16	NM_152338.1	164	gggtccagtcacacatactac	415715	-	see also 23883 line
53931	ZIC1	NM_003412.2	970	ggcagctcggctctattccagc	331655	-	see also 2306 line
53932	ZIC1	NM_003412.2	2024	cagtcgcctctctccaattta	331665	-	see also 2306 line
53933	ZMYND10	NM_015896.2	998	tgccaagggaaggctactcaagc	355371	-	see also 23885 line
53934	ZMYND10	NM_015896.2	756	agcaacttgagcgtatgcttag	355367	-	see also 23885 line
53935	ZMYND12	NM_032257.3	695	atcgttcaggctgaagaatctc	399080	-	see also 23886 line
53936	ZMYND12	NM_032257.3	908	tactccaccctggctaatatt	399088	-	see also 23886 line
53937	ZMYND12	NM_032257.3	1130	atctgaacattcaggaatctac	399095	-	see also 23886 line
53938	ZMYND15	NM_032265.1	94	ttcggctgttcgaaagtgtg	399145	-	see also 23887 line
53939	ZMYND15	NM_032265.1	51	gtctggatcaccggatgagttcc	399142	-	see also 23887 line
53940	ZMYND17	NM_178451.2	760	ttcgtgactataaattcctaca	430738	-	see also 23888 line
53941	ZMYND17	NM_178451.2	310	ccccctacaggcttggttcc	430729	-	see also 23888 line
53942	ZMYND17	NM_178451.2	889	aacctgaacagctgtattccagt	430741	-	see also 23888 line
53943	ZMYND19	NM_138462.2	589	agcttgattggctgcaattca	408293	-	see also 23889 line
53944	ZMYND19	NM_138462.2	616	ctgcctacagacacctataga	408294	-	see also 23889 line
53945	ZNF169	NM_194320.1	946	ggcgaacttcaggtatatactc	436852	-	see also 23890 line
53946	ZNF169	NM_194320.1	943	gtggggcacacttcagggtataca	436850	-	see also 23890 line
53947	ZNF233	NM_181756.1	869	tccagcatagcataatccaatc	433104	-	see also 23891 line
53948	ZNF233	NM_181756.1	476	accagtaataagacctaataat	433095	-	see also 23891 line
53949	ZNF233	NM_181756.1	475	aaccagtaataagacctaataa	433094	-	see also 23891 line
53950	ZNF237	NM_014242.1	241	gacataggggattcatttgctca	339980	-	see also 23892 line
53951	ZNF237	NM_014242.1	553	aagcttcctgtttatcgaatg	339986	-	see also 23892 line
53952	ZNF291	NM_020843.1	595	aacaaacacacagatttgattt	339987	-	see also 23892 line
53953	ZNF291	NM_020843.1	2355	ggcgaatgcacaaactcattat	379537	-	see also 7989 line
53954	ZNF291	NM_020843.1	256	atcgtctacgactggagataaac	379469	-	see also 7989 line
53955	ZNF294	NM_015565.1	1628	gtccgttttgggtgtatctaac	353948	-	see also 23894 line
53956	ZNF294	NM_015565.1	2596	cagcgaagagatcgttgcatag	353977	-	see also 23894 line
53957	ZNF313	NM_018683.3	629	ggcaccgtttttctatgacact	372540	-	see also 7554 line
53958	ZNF313	NM_018683.3	524	tcctatgacacggataccataatct	372538	-	see also 7554 line
53959	ZNF313	NM_018683.3	161	tgccctgcggaacacgtcttttgc	372532	-	see also 7554 line
53960	ZNF364	NM_014455.1	378	ggcggcagtcggatagacaatac	340680	-	see also 5679 line
53961	ZNF364	NM_014455.1	282	ggcgaagtcagccccaataaac	340673	-	see also 5679 line
53962	ZNF367	NM_153695.1	492	cagcagaatccgttgaacatct	423573	-	see also 23897 line
53963	ZNF367	NM_153695.1	996	tggagccctcggcgtcatagagc	423580	-	see also 23897 line
53964	ZNF407	NM_017757.1	2035	tgctttctatccgaaagcaacc	361869	-	see also 23898 line
53965	ZNF407	NM_017757.1	2570	tgccactttgtatagaagttt	361881	-	see also 23898 line
53966	ZNF410	NM_021188.1	871	ttgtatgccagctcacttaaa	380724	-	see also 8120 line
53967	ZNF410	NM_021188.1	1522	tgcagtcaggaggaggaatcatat	380735	-	see also 8120 line
53968	ZNF445	NM_181485.3	830	tgcgacttgcacagataggtcc	432140	-	see also 10232 line

46 (續)

53969	ZNF445	NM_181489.3	3413	ctcggcatatgaaaaaccatatt	432178	-	see also 10232 line
53970	ZNF488	NM_153034.2	1020	aacgtccgacctgtctttcaaca	421991	-	-
53971	ZNF488	NM_153034.2	1023	gtcggacctgtgtttcacatgc	421992	-	see also 53970 line
53972	ZNF488	NM_153034.2	635	agcaagaagcgcctttagcaaa	421990	-	see also 53970 line
53973	ZNF498	NM_145115.1	1298	ccacctgctgacgaagtcaaaa	413535	-	-
53974	ZNF498	NM_145115.1	1300	ccctgcctgacgaagtcaaaac	413537	-	see also 53973 line
53975	ZNF498	NM_145115.1	1299	ccctgcctgacgaagtcaaaac	413536	-	see also 53973 line
53976	ZNF503	NM_032772.3	589	cgcctgttggcgcaaacatgttcg	401353	-	see also 23900 line
53977	ZNF503	NM_032772.3	588	ggcgtgttggcgcaaacatgttc	401352	-	see also 23900 line
53978	ZNF509	NM_145291.2	1515	agcttcacgcgtcacattattatt	414183	-	see also 23901 line
53979	ZNF509	NM_145291.2	1575	gtcgaagggtttagttaacttaagt	414188	-	see also 23901 line
53980	ZNF511	NM_145806.2	687	ggcgatctacagacatagaata	414927	-	see also 23902 line
53981	ZNF511	NM_145806.2	732	agggtgcgcctcgaggatttaaa	414930	-	see also 23902 line
53982	ZNF513	NM_144631.2	1268	ctctgctcatctggataacctga	410590	-	see also 9722 line
53983	ZNF513	NM_144631.2	514	ccccaggtctactgtactcatgc	410587	-	see also 9722 line
53984	ZNF515	NM_152629.2	1343	ggcgcgttgcctcgaagataaca	419154	-	see also 23903 line
53985	ZNF515	NM_152629.2	2366	gactcactcgggcattatcagtg	419166	-	see also 23903 line
53986	ZNHIT1	NM_006349.2	722	aacttcgtcttcgaaaaaacctt	335309	-	see also 23904 line
53987	ZNHIT1	NM_006349.2	697	aagaaaaaccggagtgcatttt	335305	-	see also 23904 line
53988	ZNHIT1	NM_006349.2	726	tgcgttcgcaaaaaacttcagg	335310	-	see also 23904 line
53989	ZNRF1	NM_032268.3	1283	tgcatagactcgtgtgtttgaagt	399226	-	see also 9129 line
53990	ZPBP	NM_007009.1	773	agcgaatgtacagaccataactg	336735	-	see also 23906 line
53991	ZPBP	NM_007009.1	677	ctggaatgccatcgcgttaaaatg	336730	-	see also 23906 line
53992	ZPBP	NM_007009.1	522	tgcctatcgtgacctcattatt	336726	-	see also 23906 line
53993	ZRANB1	NM_017580.1	1970	tagacgaccataattatgtttatg	359377	-	see also 23907 line
53994	ZRANB1	NM_017580.1	886	gtgatcatcccgacccttaataac	359351	-	see also 23907 line
53995	ZSIG11	NM_015926.3	531	cgctccatcgtctgtactatga	355493	-	-
53996	ZSIG11	NM_015926.3	826	accggaagaaccagatccatttc	355494	-	see also 53995 line
53997	ZSWIM2	NM_182521.1	371	ggggagatacatcagttcaaac	434095	-	see also 23908 line
53998	ZSWIM2	NM_182521.1	361	gacttgttcggggagatacatgc	434093	-	see also 23908 line

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2005/001647

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ C12N15/09, A61K31/713, 48/00, A61P35/00//G06F17/30, G06F17/40, G06F17/50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ C12N15/09, A61K31/713, 48/00, A61P35/00//G06F17/30, G06F17/40, G06F17/50

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005
Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

BIOSIS/MEDLINE/WPIDS (STN), CAPLUS (STN), JMEDPLUS (JOIS), JSTPLUS (JOIS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	UI-TEI, K. et al., Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference, Nucleic Acids Res., 09 February, 2004 (09.02.04), Vol.32, No.3, pages 936 to 948	1-31
E,X	WO 2004/048566 A1 (SAIGO, Kaoru et al.), 10 June, 2004 (10.06.04) & EP 1571209 A1	1-31
P,X	Kumiko TEI et al., "RNAi Koka no Takai siRNA Hairetsu Sekkei Guideline", Dai 27 Kai The Molecular Biology Society of Japan Nenkai Program Koen Yoshishu, 25 November, 2004 (25.11.04), page 487, left column, 1PA-422	1-31

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
13 September, 2005 (13.09.05)

Date of mailing of the international search report
27 September, 2005 (27.09.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2005/001647

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	NAITO, Y. et al., siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference, Nucleic Acids Res., 01 July, 2004 (01.07.04), Vol.32, Web Server issue, pages W124 to W129	1-31
T	NAITO, Y. et al., dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference, Nucleic Acids Res., 01 July, 2005 (01.07.05), Vol.33, Web Server issue, pages W589 to W591	1-31
A	DOI, Z. et al., Short-interfering-RNA-mediated gene silencing in mammalian cells requires Dicer and eIF2C translation initiation factors, Curr.Biol., 2003, Vol.13, No.1, pages 41 to 46	1-31

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2005/001647

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 32

because they relate to subject matter not required to be searched by this Authority, namely:

Claim 32 is relevant to methods for treatment of the human body by therapy and thus relates to a subject matter which this International Searching Authority is not required, under the provisions of Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.

2. ☐ Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

A. 発明の属する分野の分類 (国際特許分類 (IPC)) Int.Cl. ⁷ C12N15/09, A61K31/713, 48/00, A61P35/00 // G06F17/30, G06F17/40, G06F17/50			
B. 調査を行った分野 調査を行った最小限資料 (国際特許分類 (IPC)) Int.Cl. ⁷ C12N15/09, A61K31/713, 48/00, A61P35/00 // G06F17/30, G06F17/40, G06F17/50			
最小限資料以外の資料で調査を行った分野に含まれるもの 日本国実用新案公報 1922-1996年 日本国公開実用新案公報 1971-2005年 日本国実用新案登録公報 1996-2005年 日本国登録実用新案公報 1994-2005年			
国際調査で使用した電子データベース (データベースの名称、調査に使用した用語) BIOSIS/MEDLINE/WPIDS(STN), CAPLUS(STN), JMEDPLUS(JOIS), JSTPLUS(JOIS)			
C. 関連すると認められる文献			
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号	
X	UI-TEI, K. et al., Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference, Nucleic Acids Res., 9 February 2004, Vol. 32, No. 3, pages 936 to 948	1-31	
E, X	WO 2004/048566 A1 (SAIGO, Kaoru et al.) 2004.06.10 & EP1571209 A1	1-31	
<input checked="" type="checkbox"/> C欄の続きにも文献が列挙されている。 <input type="checkbox"/> パテントファミリーに関する別紙を参照。			
* 引用文献のカテゴリー 「A」 特に関連のある文献ではなく、一般的技術水準を示すもの 「E」 国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの 「L」 優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献 (理由を付す) 「O」 口頭による開示、使用、展示等に言及する文献 「P」 国際出願日前で、かつ優先権の主張の基礎となる出願日の後に公表された文献 「T」 国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの 「X」 特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの 「Y」 特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの 「&」 同一パテントファミリー文献			
国際調査を完了した日 13. 09. 2005		国際調査報告の発送日 27. 9. 2005	
国際調査機関の名称及びあて先 日本国特許庁 (ISA/J P) 郵便番号 100-8915 東京都千代田区霞が関三丁目4番3号		特許庁審査官 (権限のある職員) 森井 隆信	4 B 9 4 5 5
		電話番号 03-3581-1101 内線	3 4 4 8

C (続き). 関連すると認められる文献		
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
P, X	程久美子 他, RNA i 効果の高い siRNA 配列設計ガイドライン, 第 27 回 日本分子生物学会年回 プログラム・講演要旨集, 2004 年 11 月 25 日, 第 487 頁 左欄 1PA-422	1-31
P, X	NAITO Y. et al., siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference, Nucleic Acids Res., 1 July 2004, Vol.32, Web Server issue, pages W124 to W129	1-31
T	NAITO Y. et al., dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference, Nucleic Acids Res., 1 July 2005, Vol.33, Web Server issue, pages W589 to W591	1-31
A	DOI Z. et al., Short-interfering-RNA-mediated gene silencing in mammalian cells requires Dicer and eIF2C translation initiation factors, Curr. Biol., 2003, Vol.13, No.1, pages 41 to 46	1-31

第Ⅱ欄 請求の範囲の一部の調査ができないときの意見（第1ページの2の続き）

PCT17条(2)(a)の規定により、この国際調査報告は次の理由により請求の範囲の一部について作成しなかった。

1. ☒ 請求の範囲32 _____ は、この国際調査機関が調査をすることを要しない対象に係るものである。
つまり、
請求の範囲32は、治療による人体の処置方法に該当し、PCT第17条(2)(a)(i)及びPCT規則39.1(iv)の規定により、この国際調査機関が調査することを要しない対象に係るものである。
2. ☐ 請求の範囲 _____ は、有意義な国際調査をすることができる程度まで所定の要件を満たしていない国際出願の部分に係るものである。つまり、
3. ☐ 請求の範囲 _____ は、従属請求の範囲であってPCT規則6.4(a)の第2文及び第3文の規定に従って記載されていない。

第Ⅲ欄 発明の単一性が欠如しているときの意見（第1ページの3の続き）

次に述べるようにこの国際出願に二以上の発明があるとこの国際調査機関は認めた。

1. ☐ 出願人が必要な追加調査手数料をすべて期間内に納付したので、この国際調査報告は、すべての調査可能な請求の範囲について作成した。
2. ☐ 追加調査手数料を要求するまでもなく、すべての調査可能な請求の範囲について調査することができたので、追加調査手数料の納付を求めなかった。
3. ☐ 出願人が必要な追加調査手数料を一部のみしか期間内に納付しなかったため、この国際調査報告は、手数料の納付のあった次の請求の範囲のみについて作成した。
4. ☐ 出願人が必要な追加調査手数料を期間内に納付しなかったため、この国際調査報告は、請求の範囲の最初に記載されている発明に係る次の請求の範囲について作成した。

追加調査手数料の異議の申立てに関する注意

- ☐ 追加調査手数料の納付と共に出願人から異議申立てがあった。
☐ 追加調査手数料の納付と共に出願人から異議申立てがなかった。